

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	1.59
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/6/2018 - 4/6/2018			
DWR Inspector	Keith Millard			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start		Rating **	M	Issue No.	3
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0349_01_f_2014_3				
Comment Code					
Inspector Comment					
Was not able to see flood fight material storage location. The President of the District was not available with me on this inspection and did not return phone call.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0349_01_f_2014_4				
Comment Code					
Inspector Comment					
RD 349 has O&M Manual on hand.					

No Photos

LM Start		Rating **	M	Issue No.	14
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0349_01_f_2014_14				
Comment Code					
Inspector Comment					
RD 349 does not have a crew, only landowners and farmers. Was not able to determine if they have been trained recently. LMA did not return my call.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	0.01	Rating **	U	Issue No.	23
LM End	0.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.327054 °	38.317598 °
				-121.577032 °	-121.579134 °
DWR ID	DWR_RD0349_01_f_2017_23				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Landside vegetation should be cleared to allow inspection and access.					

Photo 1 of 2 : SP_2018_RD0349_204_23_20180305_00010.jpg



Landside vegetation should be cleared to allow inspection and access.

LM Start	0.01	Rating **	U	Issue No.	23 (cont)
LM End	0.68	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2018_RD0349_204_23_20180409_00034.jpg



Landside vegetation has not been managed.

LM Start	0.01	Rating **	U	Issue No.	13
LM End	0.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.327047 °	38.318996 °
				-121.577032 °	-121.578906 °
DWR ID	DWR_RD0349_01_f_2017_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Waterside vegetation should be cleared to 20 feet from crown for inspection and access.					

Photo 1 of 1 : SP_2018_RD0349_204_13_20180305_00003.jpg



Waterside vegetation should be cleared to 20 feet from crown for inspection and access.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	0.03	Rating **	M	Issue No.	7
LM End	0.10	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.326743 °	38.325844 °
				-121.576979 °	-121.577119 °
DWR ID	DWR_RD0349_01_s_2016_7				
Comment Code					
Inspector Comment					
2015: Erosion observed at the toe. [2015 Site ID: SAC_33-9_R]					

No Photos

LM Start	0.04	Rating **	U	Issue No.	11
LM End	0.04	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.326638 °	38.326638 °
				-121.577001 °	-121.577001 °
DWR ID	DWR_RD0349_01_s_2017_11				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the dead fallen tree from the waterside levee section.					

Photo 1 of 1 : SP_2018_RD0349_204_11_20180305_00001.jpg



Waterside slope fallen dead tree branches cut up and remains on the levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	0.08	Rating **	M	Issue No.	35
LM End	0.08	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.326133 °	38.326133 °
				-121.577141 °	-121.577141 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44303					
DS_ID:24137					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Pipe appears to be abandoned and if so should be done so properly. Electromagnetic survey indicated a crossing at this location.					
FIELD_STRUCT_DESC: *ABANDONED* 10-inch irrigation pipe of unknown material through the levee, 3.8 feet below the levee crown. Power pole and anchor on the landside (LS). Deteriorated concrete box at the LS toe. Concrete debris on the waterside (WS) toe good indicator of pump location. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 0.1)]					
FS Date: 4/2/2015					

LM Start	0.08	Rating **	M	Issue No.	35 (cont)
LM End	0.08	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_44303_73622.jpg



Deteriated concrete distribution box on LS toe next to power pole.

Photo 2 of 3 : UCIP_SP_2018_44303_73621.jpg



Concrete debris on WS toe is a good indicator of pump location.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	0.08	Rating **	M	Issue No.	35 (cont)	
LM End	0.08	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.326133 °	38.326133 °	
				-121.577141 °	-121.577141 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44303 DS_ID:24137 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Pipe appears to be abandoned and if so should be done so properly. Electromagnetic survey indicated a crossing at this location. FIELD_STRUCT_DESC: *ABANDONED* 10-inch irrigation pipe of unknown material through the levee, 3.8 feet below the levee crown. Power pole and anchor on the landside (LS). Deteriorated concrete box at the LS toe. Concrete debris on the waterside (WS) toe good indicator of pump location. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 0.1)] FS Date: 4/2/2015						

Photo 3 of 3 : UCIP_SP_2018_44303_73620.jpg



Concrete debris on WS toe is a good indicator of pump location.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	0.48	Rating **	M	Issue No.	36
LM End	0.48	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.320476 °	38.320476 °
				-121.578616 °	-121.578616 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50062 DS_ID:24139 EP_NO: 951 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Meet Fred Wheeler with RD349 at this crossing. Crossing is active. Crossing was downgraded from Urgent to Non-Urgent -- no signs of pipe failure visible on surface. Need to contact owner -- dense vegetation on WS and LS should be cleared prior to next inspection. Need to coordinate with owner regarding the 8-inch sleeved pipe--need permit number to update record. (DWR UCIP - omagana)3/18/2009 Exposed section of levee slope on LS--need to contact owner and DWR inspector. Burrow activity noticed at crossing 10 inch holes. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 8-inch steel drainage pipe measured (instead of 10-inch) sleeved through a 12-inch steel pipe, 6.6 feet below the crown. Annular gap grouted at both ends. Active centrifugal pump on platform at landside (LS) toe. Inactive slant pump on steel platform on waterside (WS) slope (not present in 2008 referenced in USACE O&M manual). Exposed section pipe on WS slope. Service pole on the LS slope. (10-inch pipe sleeved through pre-existing 12-pipe under Permit No. 3382, 1960 - Davis J. Eliot and Son; 12-inch pipe authorized in under Permit No. 951, 1944 - Stillwater Orgards Company). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual Unit No. 110, May 1959, (HLM 0.5), 12-inch pipe]. FS Date: 8/17/2016					

Photo 1 of 3 : UCIP_SP_2018_50062_36547.jpg



View of pipe on WS with rip rap on toe--dense vegetation on slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	0.48	Rating **	M	Issue No.	36 (cont)	
LM End	0.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.320476 °	38.320476 °	
				-121.578616 °	-121.578616 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50062 DS_ID:24139 EP_NO: 951 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Meet Fred Wheeler with RD349 at this crossing. Crossing is active. Crossing was downgraded from Urgent to Non-Urgent -- no signs of pipe failure visible on surface. Need to contact owner -- dense vegetation on WS and LS should be cleared prior to next inspection. Need to coordinate with owner regarding the 8-inch sleeved pipe--need permit number to update record. (DWR UCIP - omagana)3/18/2009 Exposed section of levee slope on LS--need to contact owner and DWR inspector. Burrow activity noticed at crossing 10 inch holes. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 8-inch steel drainage pipe measured (instead of 10-inch) sleeved through a 12-inch steel pipe, 6.6 feet below the crown. Annular gap grouted at both ends. Active centrifugal pump on platform at landside (LS) toe. Inactive slant pump on steel platform on waterside (WS) slope (not present in 2008 referenced in USACE O&M manual). Exposed section pipe on WS slope. Service pole on the LS slope. (10-inch pipe sleeved through pre-existing 12-pipe under Permit No. 3382, 1960 - Davis J. Eliot and Son; 12-inch pipe authorized in under Permit No. 951, 1944 - Stillwater Orgards Company). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual Unit No. 110, May 1959, (HLM 0.5), 12-inch pipe]. FS Date: 8/17/2016						

Photo 2 of 3 : UCIP_SP_2018_50062_36546.jpg



View of pipe on LS--open cut section.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	0.48	Rating **	M	Issue No.	36 (cont)	
LM End	0.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.320476 °	38.320476 °	
				-121.578616 °	-121.578616 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50062 DS_ID:24139 EP_NO: 951 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Meet Fred Wheeler with RD349 at this crossing. Crossing is active. Crossing was downgraded from Urgent to Non-Urgent -- no signs of pipe failure visible on surface. Need to contact owner -- dense vegetation on WS and LS should be cleared prior to next inspection. Need to coordinate with owner regarding the 8-inch sleeved pipe--need permit number to update record. (DWR UCIP - omagana)3/18/2009 Exposed section of levee slope on LS--need to contact owner and DWR inspector. Burrow activity noticed at crossing 10 inch holes. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 8-inch steel drainage pipe measured (instead of 10-inch) sleeved through a 12-inch steel pipe, 6.6 feet below the crown. Annular gap grouted at both ends. Active centrifugal pump on platform at landside (LS) toe. Inactive slant pump on steel platform on waterside (WS) slope (not present in 2008 referenced in USACE O&M manual). Exposed section pipe on WS slope. Service pole on the LS slope. (10-inch pipe sleeved through pre-existing 12-pipe under Permit No. 3382, 1960 - Davis J. Eliot and Son; 12-inch pipe authorized in under Permit No. 951, 1944 - Stillwater Orgards Company). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual Unit No. 110, May 1959, (HLM 0.5), 12-inch pipe]. FS Date: 8/17/2016						

Photo 3 of 3 : UCIP_SP_2018_50062_36548.jpg



Dense burrow activity--10 inch hole present.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	0.61	Rating **	M	Issue No.	19
LM End	0.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.318596 °	38.318596 °
				-121.578979 °	-121.578979 °
DWR ID	DWR_RD0349_01_s_2018_19				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.64	Rating **	M	Issue No.	22
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.318106 °	38.307013 °
				-121.579076 °	-121.575518 °
DWR ID	DWR_RD0349_01_f_2017_22				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.73	Rating **	M	Issue No.	18
LM End	1.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.316821 °	38.311992 °
				-121.579161 °	-121.578460 °
DWR ID	DWR_RD0349_01_f_2017_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0349_204_18_20180305_00007.jpg



Trim and thin trees on landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

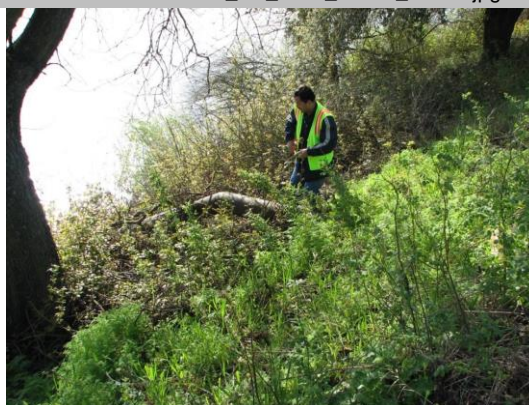
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	0.80	Rating **	C	Issue No.	17
LM End	0.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.315733 °	38.315733 °
				-121.579197 °	-121.579197 °
DWR ID	DWR_RD0349_01_f_2017_17				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove dead tree laying on landside slope.					

No Photos

LM Start	0.88	Rating **	M	Issue No.	37
LM End	0.88	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.314672 °	38.314672 °
				-121.579102 °	-121.579102 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21572 DS_ID:24521 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No records were found during intial desk study--need to contact owner to obtain permit number authorizing work. If crossing is no longer used by owner, the owner will need to coordinate with DWR Inspector and CVFPB to remove crossing according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: *ABANDONED* 8-inch irrigation pipe of unknown material through the levee, 13.9 feet below the levee crown. Pump on platform at landside (LS) toe. Service pole on LS slope. FS Date: 3/18/2009					

Photo 1 of 3 : UCIP_SP_2018_21572_36576.jpg



View of pipe crossing located on waterward side--dense vegetation on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	0.88	Rating **	M	Issue No.	37 (cont)	
LM End	0.88	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.314672 °	38.314672 °	
				-121.579102 °	-121.579102 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21572 DS_ID:24521 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No records were found during intial desk study--need to contact owner to obtain permit number authorizing work. If crossing is no longer used by owner, the owner will need to coordinate with DWR Inspector and CVFPB to remove crossing according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: *ABANDONED* 8-inch irrigation pipe of unknown material through the levee, 13.9 feet below the levee crown. Pump on platform at landside (LS) toe. Service pole on LS slope. FS Date: 3/18/2009						

Photo 2 of 3 : UCIP_SP_2018_21572_36573.jpg



Pump house located on landward side at toe.

LM Start	0.88	Rating **	M	Issue No.	37 (cont)
LM End	0.88	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_21572_36578.jpg



View of pump house, concrete stand pipe, and utility pole.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	0.98	Rating **	U	Issue No.	27
LM End	0.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.313200 °	38.313200 °
				-121.578797 °	-121.578797 °
DWR ID	DWR_RD0349_01_f_2017_27				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landside landscaping must be removed or trimmed to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD0349_204_27_20180305_00012.jpg



Landside landscaping must be removed or trimmed to allow inspection and access.

LM Start	1.00	Rating **	M	Issue No.	15	
LM End	1.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.312911 °		38.312131 °
				-121.578528 °		-121.578292 °
DWR ID	DWR_RD0349_01_f_2017_15					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:District Station 52+92 to 55+88, Sec. 06, T. 5 N. R. 4 E., M.D.M. Approximately 296 linear-feet of eroded area exists along the waterside levee slope of the Sacramento River (Unit 1). Erosion commences at approximately 3/4 of the way down the slope from the crown and extends into the rip rap. Some rip rap has been pulled off in this section.						
Site ID No:318						
Site Designation:LMA-145						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/28/2017						
Notes: slope too steep, vegetation too thick for clear inspection, no direct visual of damage						

Photo 1 of 1 : SP_2018_RD0349_204_15_20180305_00004.jpg



Waterside erosion at LM 1.02.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	1.03	Rating **	M	Issue No.	38
LM End	1.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.312496 °	38.312496 °
				-121.578625 °	-121.578625 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50013 DS_ID:24140 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Crossing has been downgraded from Urgent to Non-Urgent no signs of pipe failure were visible during site inspection. Minor erosion visible on LS shoulder covered by dry leaves. No permit was found--need to contact owner to determine age of crossing and determine when the last internal inspeciton was completed. (DWR UCIP - omagana)8/13/2009 Exposed section of levee slope on LS--need to contact owner and DWR inspector. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 14-inch steel irrigation pipe (waterside (WS) shoulder) and 12-inch pipe (landside (LS) shoulder) through the levee, 4.7 feet below the levee crown. Gate valve on the WS slope. Pump in pump house on LS slope. Pressure breaker behind pump house. Pipe exposed on WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual Unit No. 110, May 1959, HLM 1.1, 14-inch pipe with pump on WS] FS Date: 8/17/2016					

LM Start	1.03	Rating **	M	Issue No.	38 (cont)
LM End	1.03	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_50013_36561.jpg



View of pipe on WS.

Photo 2 of 3 : UCIP_SP_2018_50013_36558.jpg



View of LS slope--open cut.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

Reclamation District No. 0349 Sutter Island

Page 14 of 21

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	1.10	Rating **	M	Issue No.	26
LM End	1.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.311432 °	38.310689 °
				-121.578460 °	-121.577875 °
DWR ID	DWR_RD0349_01_f_2017_26				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.11	Rating **	U	Issue No.	29
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.311366 °	38.309955 °
				-121.578230 °	-121.577495 °
DWR ID	DWR_RD0349_01_f_2017_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0349_204_29_20180409_00036.jpg



Manage landside vegetation to allow inspection and access.

LM Start	1.14	Rating **	M	Issue No.	24
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.310992 °	38.310992 °
				-121.578050 °	-121.578050 °
DWR ID	DWR_RD0349_01_s_2018_24				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	1.19	Rating **	M	Issue No.	39	
LM End	1.19	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.310287 °	38.310287 °	
				-121.577669 °	-121.577669 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44304						
DS_ID:24141						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 2007 DWR erosion repair site location?--need to find out fate of crossing. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.						
FIELD_STRUCT_DESC: *ABANDONED* Pump house located on landside (LS) toe. Pressure breaker on LS. Electromagnetic Survey indicates a crossing at this location. [Additional Reference(s): DWR Levee Log, 2005]						
FS Date: 4/2/2015						

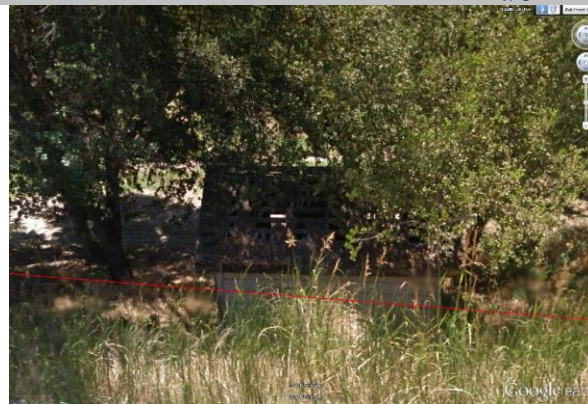
LM Start	1.19	Rating **	M	Issue No.	39 (cont)
LM End	1.19	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_44304_36580.jpg



Geotech fabric and protective frame at tree--design features of erosion repair site 2007-2009.

Photo 2 of 3 : UCIP_SP_2018_44304_73625.jpg



Pumphouse on LS toe (From google view)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	1.19	Rating **	M	Issue No.	39 (cont)	
LM End	1.19	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.310287 °	38.310287 °	
				-121.577669 °	-121.577669 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44304						
DS_ID:24141						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 2007 DWR erosion repair site location?--need to find out fate of crossing. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.						
FIELD_STRUCT_DESC: *ABANDONED* Pump house located on landside (LS) toe. Pressure breaker on LS. Electromagnetic Survey indicates a crossing at this location. [Additional Reference(s): DWR Levee Log, 2005]						
FS Date: 4/2/2015						

Photo 3 of 3 : UCIP_SP_2018_44304_73680.jpg



Pump and motor inside pumphouse at LS toe. No pipe visible.

LM Start	1.31	Rating **	M	Issue No.	10
LM End	1.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.308726 °	38.308726 °
				-121.576696 °	-121.576696 °
DWR ID	DWR_RD0349_01_f_2017_10				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Thin trees and vegetation to allow inspection.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	1.40	Rating **	M	Issue No.	32
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.307533 °	38.307533 °
				-121.575869 °	-121.575869 °
DWR ID	DWR_RD0349_01_f_2017_32				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	1.45	Rating **	M	Issue No.	33
LM End	1.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.306919 °	38.306919 °
				-121.575473 °	-121.575473 °
DWR ID	DWR_RD0349_01_f_2017_33				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landside landscaping should be thinned and maintained to allow inspeption and access to levee slope and toe.					

Photo 1 of 1 : SP_2018_RD0349_204_33_20180305_00014.jpg



Landside landscaping should be thinned and maintained to allow inspection and access to levee slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	1.46	Rating **	M	Issue No.	40	
LM End	1.46	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.306760 °	38.306760 °	
				-121.575312 °	-121.575312 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44214 DS_ID:24143 EP_NO: 12005 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe open on WS slope. 2007 Erosion Repair Site location?--Need to contact owner to determine if crossing is still in use. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 4.0 feet below the levee crown. Siphon breaker and protective housing at levee shoulder. Pump located on waterside (WS). Pipe exposed on WS slope, extending to pump. Discharge structure at landside (LS) toe. (pump installed with a 6-inch pipe authorized under Permit No. 12005, 1977 - C. Van Loben Sels) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 4/2/2015						

LM Start	1.46	Rating **	M	Issue No.	40 (cont)
LM End	1.46	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_44214_36572.jpg



View of landward side.

Photo 2 of 3 : UCIP_SP_2018_44214_36571.jpg



Pipe located on landward side--unable to determine whether it belongs to crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	1.46	Rating **	M	Issue No.	40 (cont)	
LM End	1.46	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.306760 °	38.306760 °	
				-121.575312 °	-121.575312 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44214 DS_ID:24143 EP_NO: 12005 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe open on WS slope. 2007 Erosion Repair Site location?--Need to contact owner to determine if crossing is still in use. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 4.0 feet below the levee crown. Siphon breaker and protective housing at levee shoulder. Pump located on waterside (WS). Pipe exposed on WS slope, extending to pump. Discharge structure at landside (LS) toe. (pump installed with a 6-inch pipe authorized under Permit No. 12005, 1977 - C. Van Loben Sels) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 4/2/2015						

Photo 3 of 3 : UCIP_SP_2018_44214_36570.jpg



View of pipe at waterward shoulder with control box.

LM Start	1.54	Rating **	U	Issue No.	34
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.305772 °	38.305252 °
				-121.574763 °	-121.574791 °
DWR ID	DWR_RD0349_01_f_2017_34				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Arundo completely blocks visibility and access to waterside of levee.					

Photo 1 of 1 : SP_2018_RD0349_204_34_20180305_00015.jpg



Arundo completely blocks visibility and access to waterside of levee. Must be removed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/06/2018 04/06/2018	Keith Millard

LM Start	1.54	Rating **	U	Issue No.	12
LM End	1.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.305722 °	38.305722 °
				-121.574680 °	-121.574695 °
DWR ID	DWR_RD0349_01_f_2014_12				
Comment Code					
RW : Retaining Wall					
Inspector Comment					
This issue is under review with the CVFPB. No change.					

Photo 1 of 1 : SP_2018_RD0349_204_12_20180305_00002.jpg



Looking downstream at levee mile 1.55 unauthorized block wall placed on landward levee section, no CVFPB Permit.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

Waterway			Bank	Unit Miles
Unit No. 02 Steamboat Slough			Right	4.32
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/6/2018 - 4/6/2018			
DWR Inspector	Keith Millard			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.00	Rating **	M	Issue No.	86
LM End	0.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.305124 °	38.305124 °
				-121.574772 °	-121.574772 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46168 DS_ID:25096 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to identify permit for crossing. FIELD_STRUCT_DESC: 2-inch waterline through the levee at an unknown depth below crown. Pipe provides service to bridge and beach (per landowner). FS Date: 4/9/2015					

Photo 1 of 3 : UCIP_SP_2018_46168_74542.jpg



Cut in pavement good indicator of pipe location.

LM Start	0.00	Rating **	M	Issue No.	86 (cont)
LM End	0.00	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_46168_74543.jpg



Christy box on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.00	Rating **	M	Issue No.	86 (cont)
LM End	0.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.305124 °	38.305124 °
				-121.574772 °	-121.574772 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46168 DS_ID:25096 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to identify permit for crossing. FIELD_STRUCT_DESC: 2-inch waterline through the levee at an unknown depth below crown. Pipe provides service to bridge and beach (per landowner). FS Date: 4/9/2015					

Photo 3 of 3 : UCIP_SP_2018_46168_74544.jpg



Pipe visible next to bridge on WS shoulder.

LM Start	0.01	Rating **	U	Issue No.	4
LM End	0.01	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.304870 °	38.304870 °
				121.574730 °	121.574730 °
DWR ID	DWR_RD0349_02_s_2012_4				
Comment Code					
BU : Building					
Inspector Comment					
This encroachment is along the waterward shoulder and was not authorized by the CVFPB. There are multiple encroachments at this site. Owner was working with CVFPB to get permits as of 11-2013. This issue is still pending as of 2016. No change. 5-2017.					

Photo 1 of 2 : SP_2018_RD0349_205_4_20180305_00006.jpg



Unauthorized building waterside shoulder; Unit 2 Sutter Slough.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.01	Rating **	U	Issue No.	4 (cont)
LM End	0.01	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.304870 °	38.304870 °
				121.574730 °	121.574730 °
DWR ID	DWR_RD0349_02_s_2012_4				
Comment Code					
BU : Building					
Inspector Comment					
This encroachment is along the waterward shoulder and was not authorized by the CVFPB. There are multiple encroachments at this site. Owner was working with CVFPB to get permits as of 11-2013. This issue is still pending as of 2016. No change. 5-2017.					

Photo 2 of 2 : SP_2018_RD0349_205_4_20180305_00007.jpg



Unauthorized fence adjacent to building waterside Sutter Slough.

LM Start	0.04	Rating **	M	Issue No.	87
LM End	0.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.304885 °	38.304885 °
				-121.575369 °	-121.575369 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46169 DS_ID:25098 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. Need to identify permit. FIELD_STRUCT_DESC: 1-inch waterline of unknown material through the levee, 1.5-feet below the levee crown. Pipe visible at fence on waterside (WS) slope. FS Date: 4/9/2015					

Photo 1 of 3 : UCIP_SP_2018_46169_74545.jpg



Pipe visible at base of fence on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.04	Rating **	M	Issue No.	87 (cont)	
LM End	0.04	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.304885 °	38.304885 °	
				-121.575369 °	-121.575369 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:46169						
DS_ID:25098						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned and if so should be done so properly. Need to identify permit.						
FIELD_STRUCT_DESC: 1-inch waterline of unknown material through the levee, 1.5-feet below the levee crown. Pipe visible at fence on waterside (WS) slope.						
FS Date: 4/9/2015						

Photo 2 of 3 : UCIP_SP_2018_46169_74546.jpg



Fence on WS shoulder.

LM Start	0.04	Rating **	M	Issue No.	87 (cont)
LM End	0.04	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_46169_74547.jpg



Approximate location of pipe alignment on LS of crown.

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.04	Rating **	M	Issue No.	44
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.304877 °	38.304719 °
				-121.575384 °	-121.576083 °
DWR ID	DWR_RD0349_02_f_2017_44				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Waterside vegetation should be removed or thinned to 20 feet from crown to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD0349_205_44_20180305_00041.jpg



Waterside vegetation should be removed or thinned to 20 feet from crown to allow inspection and access.

LM Start	0.04	Rating **	U	Issue No.	45
LM End	0.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.304886 °	38.304726 °
				-121.575406 °	-121.576085 °
DWR ID	DWR_RD0349_02_s_2018_45				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0349_205_45_20180409_00112.jpg



Manage landside vegetation to allow inspection and access.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.10	Rating **	M	Issue No.	88	
LM End	0.10	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.304606 °	38.304606 °	
				-121.576323 °	-121.576323 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21576 DS_ID:24145 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No connection present--need to contact owner to determine if owner plans to use. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Unable to determine if crossing is in use. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: *ABANDONED* 10-inch irrigation pipe through the levee, 6.0 feet below the levee crown. Pump and slide gate are located on the waterside (WS) slope. Concrete pipe riser and distribution box located on the landside (LS) toe. Service pole and anchor on the LS slope. [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/18/2009						

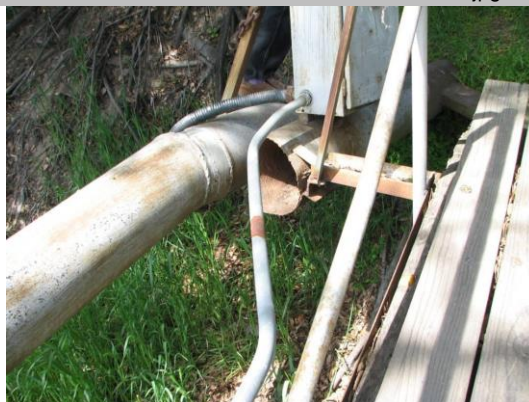
Photo 1 of 3 : UCIP_SP_2018_21576_36593.jpg



Dense vegetation on waterward slope--2 pipes and 1 conduit.

LM Start	0.10	Rating **	M	Issue No.	88 (cont)
LM End	0.10	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_21576_36592.jpg



Pipes through levee at waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.10	Rating **	M	Issue No.	88 (cont)	
LM End	0.10	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.304606 °		38.304606 °
				-121.576323 °		-121.576323 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21576 DS_ID:24145 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No connection present--need to contact owner to determine if owner plans to use. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Unable to determine if crossing is in use. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: *ABANDONED* 10-inch irrigation pipe through the levee, 6.0 feet below the levee crown. Pump and slide gate are located on the waterside (WS) slope. Concrete pipe riser and distribution box located on the landside (LS) toe. Service pole and anchor on the LS slope. [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/18/2009						

Photo 3 of 3 : UCIP_SP_2018_21576_36591.jpg



Multiple appurtenances found on landward side-standpipe, electrical pole, valve, concrete distribution box.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.10	Rating **	M	Issue No.	89	
LM End	0.10	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.304606 °	38.304606 °	
				-121.576323 °	-121.576323 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21577 DS_ID:24146 EP_NO: 2480 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Unable to determine if crossing is in use. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 6.0 feet below the levee crown. Pump and slide gate on the waterside (WS) slope. Concrete pipe riser and distribution box with gate valve located on the landside (LS) toe. Service pole and anchor on the LS slope. (10-inch pipe installed under Permit No. 2480, 1959 - L. C. Peck) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/18/2009						

LM Start	0.10	Rating **	M	Issue No.	89 (cont)
LM End	0.10	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_21577_36597.jpg



Dense vegetation on waterward slope-2 pipes and 1 conduit.

Photo 2 of 3 : UCIP_SP_2018_21577_36596.jpg



View of waterward side--pump and raised platform.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.10	Rating **	M	Issue No.	89 (cont)	
LM End	0.10	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.304606 °	38.304606 °	
				-121.576323 °	-121.576323 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21577 DS_ID:24146 EP_NO: 2480 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Unable to determine if crossing is in use. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 6.0 feet below the levee crown. Pump and slide gate on the waterside (WS) slope. Concrete pipe riser and distribution box with gate valve located on the landside (LS) toe. Service pole and anchor on the LS slope. (10-inch pipe installed under Permit No. 2480, 1959 - L. C. Peck) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/18/2009						

Photo 3 of 3 : UCIP_SP_2018_21577_36598.jpg



Pipes through levee at waterward slope.

LM Start	0.11	Rating **	M	Issue No.	46
LM End	0.11	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.304450 °	38.304450 °
				-121.576562 °	-121.576562 °
DWR ID	DWR_RD0349_02_s_2016_46				
Comment Code					
EQ : Equipment					
Inspector Comment					
Move the equipment away from the levee toe.					

Photo 1 of 1 : SP_2018_RD0349_205_46_20180305_00043.jpg



Equipment at landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

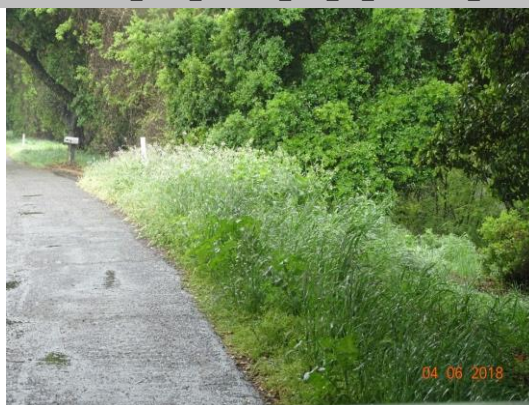
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.12	Rating **	C	Issue No.	6
LM End	0.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.304443 °	38.304443 °
				-121.576687 °	-121.576687 °
DWR ID	DWR_RD0349_02_f_2013_6				
Comment Code					
DE : Debris					
Inspector Comment					
No trash observed on the levee section.					

No Photos

LM Start	0.12	Rating **	U	Issue No.	71
LM End	0.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.304402 °	38.304402 °
				-121.576753 °	-121.576753 °
DWR ID	DWR_RD0349_02_s_2018_71				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0349_205_71_20180409_00114.jpg



Manage landside vegetation to allow inspection and access.

LM Start	0.12	Rating **	U	Issue No.	72
LM End	0.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.304405 °	38.303999 °
				-121.576763 °	-121.577367 °
DWR ID	DWR_RD0349_02_s_2018_72				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0349_205_72_20180409_00115.jpg



Reduce waterside vegetation to 20' from crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.13	Rating **	M	Issue No.	90	
LM End	0.13	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.304345 °		38.304345 °
				-121.576824 °		-121.576824 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21613						
DS_ID:24147						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.						
FIELD_STRUCT_DESC: 3-inch steel siphon irrigation pipe through the levee, 3.3 feet below the levee crown. Gate valve on landside (LS).						
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 0.1)]						
FS Date: 3/18/2009						

LM Start	0.13	Rating **	M	Issue No.	90 (cont)
LM End	0.13	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_21613_36685.jpg



Underground service alert (USA) marking on levee crown.

Photo 2 of 3 : UCIP_SP_2018_21613_36687.jpg



View of crossing on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.13	Rating **	M	Issue No.	90 (cont)	
LM End	0.13	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.304345 °		38.304345 °
				-121.576824 °		-121.576824 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21613 DS_ID:24147 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 3-inch steel siphon irrigation pipe through the levee, 3.3 feet below the levee crown. Gate valve on landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 0.1)] FS Date: 3/18/2009						

Photo 3 of 3 : UCIP_SP_2018_21613_36688.jpg



View of air valve located on waterward slope--dense vegetation limits inspection.

LM Start	0.14	Rating **	M	Issue No.	74
LM End	1.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.304250 °	38.281624 °
				-121.576987 °	-121.589642 °
DWR ID	DWR_RD0349_02_s_2018_74				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.16	Rating **	M	Issue No.	73
LM End	0.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.304117 °	38.304117 °
				-121.577263 °	-121.577263 °
DWR ID	DWR_RD0349_02_s_2014_73				
Comment Code					
MA : Material					
Inspector Comment					
Remove the material from the landside levee section.					

Photo 1 of 1 : SP_2018_RD0349_205_73_20180305_00057.jpg



Material/debris on landside slope.

LM Start	0.17	Rating **	M	Issue No.	75
LM End	1.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.304000 °	38.281624 °
				-121.577375 °	-121.589642 °
DWR ID	DWR_RD0349_02_s_2018_75				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.22	Rating **	U	Issue No.	76
LM End	0.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.303528 °	38.303528 °
				-121.578179 °	-121.578179 °
DWR ID	DWR_RD0349_02_s_2018_76				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Thick ivy prevents inspection and access. Should be removed.					

Photo 1 of 1 : SP_2018_RD0349_205_76_20180409_00116.jpg



Landside ivy should be reduced to allow inspection and access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

Reclamation District No. 0349 Sutter Island

No Photos

View of landward side--unable to inspect.

Page 14 of 64

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.28	Rating **	M	Issue No.	91 (cont)
LM End	0.28	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.303072 °	38.303072 °	
			-121.579066 °	-121.579066 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:21614
DS_ID:24148
EP_NO: 12006
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Altered crossing--contact owner to obtain new permit authoring work. Debris remains on site. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 4 feet below the levee crown. 3-inch conduit through levee to service pump. Steel cutoff wall around pipe at center of levee. Siphon breaker in concrete riser at landside (LS) shoulder. Gate valve on LS. Pump on concrete pad on waterside (WS) slope. Discharge structure at LS toe. (pump with 6-inch pipe authorized under Permit No. 12006, 1977 - Carel Van Loben Sels) [Additional Reference(s): DWR Levee Log, 2005]
FS Date: 3/18/2009

LM Start	0.28	Rating **	M	Issue No.	91 (cont)
LM End	0.28	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_21614_36690.jpg



Crossing has been altered--abandoned pipe through levee slope remains.

Photo 3 of 3 : UCIP_SP_2018_21614_36689.jpg



New configuration--sections of pipe have been abandoned.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.34	Rating **	A/W	Issue No.	9
LM End	0.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.302358 °	38.301772 °
				-121.579707 °	-121.580093 °
DWR ID	DWR_RD0349_02_s_2016_9				
Comment Code					
Inspector Comment					
2007 - Slow erosion, probably due to wave wash and fluvial erosion. Site has likely been here for awhile but was unseen due to boats parked in front. 2015: Large tree popout, scarp reaches crown of levee. [2015 Site ID: STM_25-8_R]					

Photo 1 of 1 : SP_2018_RD0349_205_9_20180305_00009.jpg



USACE 2013 Photo #1

LM Start	0.35	Rating **	A/W	Issue No.	39
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.302368 °	38.302368 °
				-121.579933 °	-121.579933 °
DWR ID	DWR_RD0349_02_s_2017_39				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
This erosion occurred during the Feb Storm 2017 event.					

Photo 1 of 1 : SP_2018_RD0349_205_39_20180305_00029.jpg



RD 349 Unit 2 levee mile 0.35 waterside slope and shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

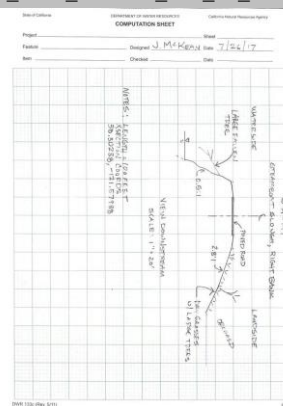
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.35	Rating **	A/W	Issue No.	32
LM End	0.37	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.302217°	38.302017°	
			-121.579847°	-121.580017°	
DWR ID	DWR_RD0349_02_f_2017_32				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: District Station 19+13 to 20+07, Sec. 07, T. 5 N. R. 4 E., M.D.M. . Approximately 94 linear feet of erosion exists on the water side slope of the Steamboat Slough levee (Unit 2). The erosion area commences approximately halfway down the slope from the levee crown and extends to the waterside toe. No rip rap is visible in this area.</p> <p>Site ID No: 320</p> <p>Site Designation: LMA-147</p> <p>Repair Type: Erosion</p> <p>Rating: Critical</p> <p>Field Date: 7/26/2017</p> <p>Notes: fallen tree present</p>					

Photo 1 of 3 : SP_2018_RD0349_205_32_20180305_00015.jpg



LM Start	0.35	Rating **	A/W	Issue No.	32 (cont)
LM End	0.37	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2018_RD0349_205_32_20180305_00016.jpg



<p>* Location</p> <p>LS : Land Side N/A : Not Applicable</p> <p>WS : Water Side</p> <p>CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable</p> <p>M : Minimally Acceptable</p> <p>U : Unacceptable</p>	<p>N : Not Inspected/Rated</p> <p>C : Corrected</p> <p>A/W : Acceptable but Monitor & Maintain</p>	<p>+ Issue Type</p> <p>Ma : Maintenance Deficiency</p> <p>Ob : Design & System Obsolescence</p> <p>En : Enforcement</p>
---	---	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.35	Rating **	A/W	Issue No.	32 (cont)	
LM End	0.37	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.302217 °	38.302017 °	
				-121.579847 °	-121.580017 °	
DWR ID	DWR_RD0349_02_f_2017_32					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description: District Station 19+13 to 20+07, Sec. 07, T. 5 N. R. 4 E., M.D.M. . Approximately 94 linear feet of erosion exists on the water side slope of the Steamboat Slough levee (Unit 2). The erosion area commences approximately halfway down the slope from the levee crown and extends to the waterside toe. No rip rap is visible in this area.						
Site ID No:320						
Site Designation:LMA-147						
Repair Type: Erosion						
Rating:Critical						
Field Date:7/26/2017						
Notes: fallen tree present						

Photo 3 of 3 : SP_2018_RD0349_205_32_20180305_00017.jpg



No Photos

LM Start	0.35	Rating **	M	Issue No.	38
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.302277 °	38.302277 °
				-121.579960 °	-121.579960 °
DWR ID	DWR_RD0349_02_s_2017_38				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on the waterside slope cut up and remove from the levee section.					

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.45	Rating **	M	Issue No.	49
LM End	0.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.300990 °	38.300853 °
				-121.580678 °	-121.580748 °
DWR ID	DWR_RD0349_02_s_2016_49				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Thin out the trees to allow the slope to be seen.					

No Photos

LM Start	0.57	Rating **	M	Issue No.	92	
LM End	0.57	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.299353 °	38.299353 °	
				-121.581525 °	-121.581525 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21615 DS_ID:24149 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner (Permit No. 3678) to determine if crossing is still in use. If crossing is not in use will need to coordinate with DWR Inspector and CVFPB to remove pipe according to Title 23 requirements. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 2.5 feet below the crown. Pump on waterside (WS) slope. Service pole at landside (LS) shoulder. 3-inch conduit through levee to service pump. (removed and installed pump, and construction of cement filled steel piling foundation on levee authorized under Permit No. 3678, 1961 - Ostman Bros.) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 0.6)] FS Date: 3/18/2009						

Photo 1 of 3 : UCIP_SP_2018_21615_36694.jpg



View of pipe and pump on waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.57	Rating **	M	Issue No.	92 (cont)
LM End	0.57	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.299353 °	38.299353 °
				-121.581525 °	-121.581525 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:21615
DS_ID:24149
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner (Permit No. 3678) to determine if crossing is still in use. If crossing is not in use will need to coordinate with DWR Inspector and CVFPB to remove pipe according to Title 23 requirements. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.
FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 2.5 feet below the crown. Pump on waterside (WS) slope. Service pole at landside (LS) shoulder. 3-inch conduit through levee to service pump. (removed and installed pump, and construction of cement filled steel piling foundation on levee authorized under Permit No. 3678, 1961 - Ostman Bros.) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 0.6)]
FS Date: 3/18/2009

LM Start	0.57	Rating **	M	Issue No.	92 (cont)
LM End	0.57	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_21615_36695.jpg



View of landward shoulder--service pole and pipe section through slope.

Photo 3 of 3 : UCIP_SP_2018_21615_36696.jpg



View of landward side--it appears PVC pipe was sleeved through existing crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

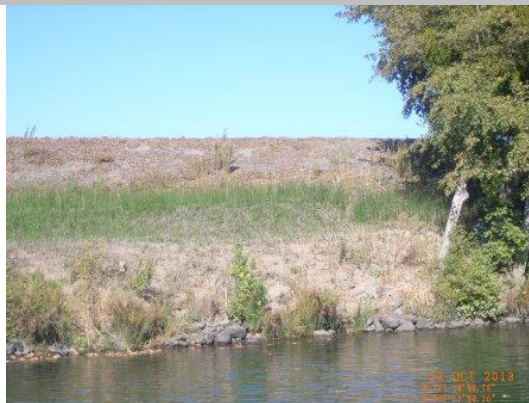
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.60	Rating **	M	Issue No.	13
LM End	0.72	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.298897 °	38.297384 °
				-121.581571 °	-121.582176 °
DWR ID	DWR_RD0349_02_s_2016_13				
Comment Code					
Inspector Comment					
2010 - Small maintenance, erosion into the toe. 2011 - Minor new erosion at toe. 2015: Minor new erosion at toe, new tree popout. [2015 Site ID: STM_25-5_R]					

Photo 1 of 1 : SP_2018_RD0349_205_13_20180305_00012.jpg



USACE 2013 Photo #1

LM Start	0.71	Rating **	M	Issue No.	52
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.297441 °	38.297441 °
				-121.582451 °	-121.582451 °
DWR ID	DWR_RD0349_02_f_2017_52				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Landside trees should be trimmed and maintained to allow inspection and access to levee slope and toe.					

Photo 1 of 1 : SP_2018_RD0349_205_52_20180305_00046.jpg



Landside trees should be trimmed and maintained to allow inspection and access to levee slope and toe.

LM Start	0.82	Rating **	M	Issue No.	67
LM End	0.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.296005 °	38.295862 °
				-121.582838 °	-121.582900 °
DWR ID	DWR_RD0349_02_s_2012_67				
Comment Code					
MA : Material					
Inspector Comment					
Remove the equipment and other items/debris from the landward slope.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	0.83	Rating **	M	Issue No.	12
LM End	0.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.295753 °	38.295753 °
				-121.582838 °	-121.582840 °
DWR ID	DWR_RD0349_02_s_2012_12				
Comment Code					
V6 : Landscaping					
Inspector Comment					
The landscaping should be maintained.					

No Photos

LM Start	0.93	Rating **	M	Issue No.	7
LM End	0.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.294385 °	38.294385 °
				-121.583351 °	-121.583351 °
DWR ID	DWR_RD0349_02_f_2017_7				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree has been removed from road, but currently obstructs visibility and access to landside slope. Smaller branches/foliage are stacked along both roadway shoulders. All debris should be removed from levee.					

Photo 1 of 1 : SP_2018_RD0349_205_7_20180305_00008.jpg



Fallen tree on landside slope.

LM Start	1.06	Rating **	M	Issue No.	53
LM End	1.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.292599 °	38.292599 °
				-121.583849 °	-121.583849 °
DWR ID	DWR_RD0349_02_s_2018_53				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	1.06	Rating **	C	Issue No.	35
LM End	1.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.292557 °	38.292557 °
				-121.583875 °	-121.583875 °
DWR ID	DWR_RD0349_02_f_2016_35				
Comment Code					
EQ : Equipment					
Inspector Comment					
Old irrigation discarded pipe on landside slope need to be removed.					

No Photos

LM Start	1.07	Rating **	C	Issue No.	48
LM End	1.07	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.292491 °	38.292491 °
				-121.583883 °	-121.583883 °
DWR ID	DWR_RD0349_02_f_2017_48				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree has been cut up but should be removed from landside slope.					

No Photos

LM Start	1.08	Rating **	U	Issue No.	36
LM End	1.08	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.292380 °	38.292282 °
				-121.583963 °	-121.583958 °
DWR ID	DWR_RD0349_02_f_2016_36				
Comment Code					
ST : Stairway					
Inspector Comment					
Land owner has excavated and installed stairs on the waterside slope. Stairs should be removed and slope restored to original configuration as soon as possible.					

Photo 1 of 2 : SP_2018_RD0349_205_36_20180305_00025.jpg



RD 349 Unit 2 waterside slope and berm Land owner has dug a pit.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	1.08	Rating **	U	Issue No.	36 (cont)	
LM End	1.08	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.292380 °		38.292282 °
				-121.583963 °		-121.583958 °
DWR ID	DWR_RD0349_02_f_2016_36					
Comment Code						
ST : Stairway						
Inspector Comment						
Land owner has excavated and installed stairs on the waterside slope. Stairs should be removed and slope restored to original configuration as soon as possible.						

Photo 2 of 2 : SP_2018_RD0349_205_36_20180305_00026.jpg



The landowner has knotted step into the waterside slope.

LM Start	1.33	Rating **	U	Issue No.	57
LM End	1.33	Issue Type +	En	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.288742 °	38.288742 °
				-121.583980 °	-121.583980 °
DWR ID	DWR_RD0349_02_f_2017_57				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landside landscaping should be thinned and maintained to allow inspection and access to levee slope and toe.					

Photo 1 of 1 : SP_2018_RD0349_205_57_20180305_00048.jpg



Landside landscaping should be thinned and maintained to allow inspection and access to levee slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
---	--	--	--	--

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	1.33	Rating **	M	Issue No.	40
LM End	1.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.288727 °	38.286475 °
				-121.583823 °	-121.585026 °
DWR ID	DWR_RD0349_02_f_ 2017_40				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:66					
Site Designation:DWR_RD0349_02_s_2012_28					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/7/2017					
Notes: dense vegetation and large trees hindered visibility; slope riprapp appeared failing in some parts					

LM Start	1.33	Rating **	M	Issue No.	40 (cont)
LM End	1.49	Issue Type +	Ma	Location *	

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	1.33	Rating **	M	Issue No.	40 (cont)	
LM End	1.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.288727 °		38.286475 °
				-121.583823 °		-121.585026 °
DWR ID	DWR_RD0349_02_f_2017_40					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:66						
Site Designation:DWR_RD0349_02_s_2012_28						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/7/2017						
Notes: dense vegetation and large trees hindered visibility; slope riprap appeared failing in some parts						

Photo 3 of 3 : SP_2018_RD0349_205_40_20180305_00032.jpg



LM Start	1.33	Rating **	A/W	Issue No.	10
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.288727 °	38.286475 °
				-121.583823 °	-121.585026 °
DWR ID	DWR_RD0349_02_s_2016_10				
Comment Code					
Inspector Comment					
1997 - Erosion of very sandy levee behind large stand of riparian vegetation on top right bank. Dry ravel of sand. 1999 - Quarry waste rock was dumped down the levee slope; poor repair job; still eroding in places. Eroding at midslope off fabric. 2005 - Length revised, only the middle 150 - 200 ft are eroding. 2006 - Some rock/small material dumped down the bank but it is slowly unraveling. Upstream end is unraveling faster. Steep slope with poor gradation so fines are washing out. 2010 - Lots of overhanging trees and erosion pockets. 2011 - This site is upgraded to CRITICAL. Near vertical bank at the downstream end. New erosion at various locations throughout the site. 2015: No observed changes. [2015 Site ID: STM 24-7 R]					

Photo 1 of 1 : SP_2018_RD0349_205_10_20180305_00010.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

Reclamation District No. 0349 Sutter Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	1.38	Rating **	M	Issue No.	93 (cont)	
LM End	1.38	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.287925 °	38.287925 °	
				-121.584063 °	-121.584063 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21606 DS_ID:24154 EP_NO: 6274 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears to have been altered--recommend coordinating with owner to determine records for crossing. Will need permit issued for pipe install. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 3 feet below the crown. Cutoff wall around pipe at waterside (WS) shoulder. Siphon breaker at landside (LS) shoulder. Air vent and pressure breaker on WS slope. Slant pump on the WS slope. Concrete distribution box at LS toe. (12-inch pipe and slant mounted pump installed and existing 8-inch pipe removed under Permit No. 6274, 1974 - P. L. Peck) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/18/2009						

Photo 3 of 3 : UCIP_SP_2018_21606_36657.jpg



Pipe sleeved through larger pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	1.46	Rating **	A/W	Issue No.	34
LM End	1.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.286886 °	38.286861 °
				-121.584589 °	-121.584622 °
DWR ID	DWR_RD0349_02_f _ 2017_34				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:District Station 77+56 to 77+68, Sec. 18, T. 5 N. R. 4 E., M.D.M. Approximately 12 linear feet of erosion/sloughing exists along the water side slope of Steamboat Slough (Unit 2). The erosion area commences approximately halfway down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.					
Site ID No:322					
Site Designation:LMA-149					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/28/2017					
Notes: no berm					

LM Start	1.46	Rating **	A/W	Issue No.	34 (cont)
LM End	1.46	Issue Type +	Ma	Location *	

A photograph showing a tree trunk in a wooded area, surrounded by dense green foliage and ferns. The ground is covered with fallen leaves and twigs.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Reclamation District No. 0349 Sutter Island

A photograph of a dense, lush green forest. Sunlight filters through the canopy, creating bright patches of light on the ground and foliage. The trees are tall and slender, with thick green leaves. The overall scene is vibrant and natural.A photograph of a large, mature tree with dense green foliage, partially obscured by tall grass and other vegetation in the foreground. The tree's trunk is visible on the left, and its branches spread out, filling much of the frame with green leaves. The foreground is filled with tall, thin grasses and some smaller green plants, creating a layered effect. The lighting suggests a bright, sunny day, with some highlights on the leaves and grass.Page 30 of 64

Reclamation District No. 0349 Sutter Island

View of waterward side.

Page 31 of 64

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	1.62	Rating **	M	Issue No.	94 (cont)	
LM End	1.62	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.285573 °	38.285573 °	
				-121.586986 °	-121.586986 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21607 DS_ID:24155 EP_NO: 1116 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 4.7 feet below the levee crown. Two concrete cutoff walls under each shoulder. Pressure breaker in concrete riser at levee shoulder. Pump on waterside (WS). (8-inch pipe atuhorized under Permit No. 1116, 1974 - A. C. Ostman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 1.7)] FS Date: 3/18/2009						

LM Start	1.62	Rating **	M	Issue No.	94 (cont)
LM End	1.62	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_21607_36659.jpg



Pipe at the waterward toe.

Photo 3 of 3 : UCIP_SP_2018_21607_36658.jpg



Filter system, control panel, and stand pipe located at the landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	1.62	Rating **	M	Issue No.	33
LM End	1.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.285497 °	38.285497 °
				-121.587083 °	-121.587083 °
DWR ID	DWR_RD0349_02_s_2018_33				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.68	Rating **	M	Issue No.	54
LM End	1.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.285002 °	38.285002 °
				-121.587882 °	-121.587882 °
DWR ID	DWR_RD0349_02_s_2018_54				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.80	Rating **	M	Issue No.	58
LM End	1.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.283642 °	38.283642 °
				-121.589158 °	-121.589158 °
DWR ID	DWR_RD0349_02_f_2017_58				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landside landscaping should be thinned and maintained to allow inspection and access to levee slope and toe.					

Photo 1 of 1 : SP_2018_RD0349_205_58_20180305_00049.jpg



Landside landscaping should be thinned and maintained to allow inspection and access to levee slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	1.83	Rating **	M	Issue No.	95
LM End	1.83	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.283238 °	38.283238 °
				-121.589337 °	-121.589337 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:21608
DS_ID:24156
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 3.9 feet below the levee crown. Siphon breaker in concrete riser on the landside (LS) shoulder. Pump and gate valve in pump house on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 1.9)]
FS Date: 3/18/2009

LM Start	1.83	Rating **	M	Issue No.	95 (cont)
LM End	1.83	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_21608_36662.jpg



View of pipe on waterward slope.

Photo 2 of 3 : UCIP_SP_2018_21608_36663.jpg



View of pipe daylight at shed on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	1.83	Rating **	M	Issue No.	95 (cont)	
LM End	1.83	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.283238 °	38.283238 °	
				-121.589337 °	-121.589337 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21608 DS_ID:24156 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 3.9 feet below the levee crown. Siphon breaker in concrete riser on the landside (LS) shoulder. Pump and gate valve in pump house on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 1.9)] FS Date: 3/18/2009						

Photo 3 of 3 : UCIP_SP_2018_21608_36665.jpg



View inside pump house of pipe crossing coming out of levee.

LM Start	2.04	Rating **	M	Issue No.	19
LM End	2.05	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.280069 °	38.279919 °
				-121.589443 °	-121.589438 °
DWR ID	DWR_RD0349_02_s_2016_19				
Comment Code					
Inspector Comment					
2011 - Small scallop caused by erosion and wave wash. 2015: No observed changes. [2015 Site ID: STM_24-1_R]					

Photo 1 of 1 : SP_2018_RD0349_205_19_20180305_00014.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	2.11	Rating **	A/W	Issue No.	41
LM End	2.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.279039 °	38.278806 °
				-121.589664 °	-121.589783 °
DWR ID	DWR_RD0349_02_f _ 2017_41				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:District Station 112+11 to 113+04, Sec. 13, T. 5 N. R. 3 E., M.D.M. Approximately 93 linear feet of erosion exists along the water side slope of Steamboat Slough (Unit 2). The erosion area commences approximately 3/4 of the way down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.					
Site ID No:324					
Site Designation:LMA-151					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/28/2017					
Notes: no berm					

Photo 1 of 3 : SP_2018_RD0349_205_41_20180305_00033.jpg



Photo 2 of 3 : SP_2018_RD0349_205_41_20180305_00034.jpg



LM Start	2.11	Rating **	A/W	Issue No.	41 (cont)
LM End	2.13	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

Reclamation District No. 0349 Sutter Island

A photograph of a riverbank with dense vegetation, including trees and tall grasses, under bright sunlight. The scene shows a mix of green foliage and dry, yellowish grasses in the foreground. A large tree trunk is visible on the left, leaning over the water. The water is calm and reflects the surrounding greenery.

USACE 2013 Photo #1

Page 37 of 64

Reclamation District No. 0349 Sutter Island

Debris along pipe alignment.

Page 38 of 64

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	2.15	Rating **	M	Issue No.	96 (cont)	
LM End	2.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.278682 °	38.278682 °	
				-121.590104 °	-121.590104 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21609 DS_ID:24157 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris scattered--need to contact owner. If crossing is not in used will need to coordinate with DWR Inspector and CVFPB to remove per Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 8-inch irrigation pipe of unknown material sleeved through 12-inch pipe through the levee, 4 feet below the levee crown. Annular gap not grouted. Service pole on the waterside (WS) shoulder. Pump on the WS. Concrete distribution box at landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 2.3), 12-inch] FS Date: 3/18/2009						

Photo 3 of 3 : UCIP_SP_2018_21609_36666.jpg



Overview of landward side--distribution box located at toe.

LM Start	2.26	Rating **	M	Issue No.	55
LM End	4.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277275 °	38.254795 °
				-121.591159 °	-121.600082 °
DWR ID	DWR_RD0349_02_s_2018_55				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	2.26	Rating **	M	Issue No.	56
LM End	2.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277267 °	38.275716 °
				-121.591175 °	-121.591365 °
DWR ID	DWR_RD0349_02_s_2018_56				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	2.37	Rating **	U	Issue No.	60
LM End	2.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.275713 °	38.274919 °
				-121.591369 °	-121.590622 °
DWR ID	DWR_RD0349_02_f_2017_60				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Arundo and other landscape vegetation blocks visibility and access in most areas. Arondo should be removed; the rest should be thinned.					

Photo 1 of 1 : SP_2018_RD0349_205_60_20180305_00051.jpg



Arundo and other vegetation blocks visibility and access in most areas.
Arundo should be removed; the rest should be thinned.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	2.39	Rating **	M	Issue No.	97
LM End	2.39	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.275493 °	38.275493 °
				-121.591208 °	-121.591208 °
DWR ID					

Comment Code

[illegible]

Inspector Comment	

FS_ID:39873
DS_ID:24158
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limit the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 4 feet below the levee crown. Pump on pile structure on waterside (WS), walkway to pump. Concrete distribution box and power pole with anchor at landside (LS) toe. Concrete standpipe on LS. (12-inch pipe authorized under Permit No. 946, 1944 - F. J. Mcquaid). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 2.5)]
FS Date: 3/18/2009

LM Start	2.39	Rating **	M	Issue No.	97 (cont)
LM End	2.39	Issue Type +	En	Location *	

A wooden dock extends from the bottom right corner into a calm body of water. A small, light-colored boat is moored at the end of the dock. The water reflects the sky and the surrounding greenery. In the background, a grassy bank rises, dotted with trees, under a clear blue sky.

View of waterward side--pump and control panel located on raised platform.

Overview of waterward side--dense vegetation limits slope inspection.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Reclamation District No. 0349 Sutter Island

Page 42 of 64

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	2.39	Rating **	U	Issue No.	1 (cont)	
LM End	2.39	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			38.275403 °	38.275403 °	
				-121.591229 °	-121.591229 °	
DWR ID	DWR_RD0349_02_f_2013_1					
Comment Code						
ST : Stairway						
Inspector Comment						
The landowner has installed steps on the waterside slope and has an unauthorized boat dock anchored to the waterside slope.						

Photo 2 of 3 : SP_2018_RD0349_205_1_20180305_00002.jpg



Unauthorized dock at waterside toe.

LM Start	2.39	Rating **	U	Issue No.	1 (cont)
LM End	2.39	Issue Type +	En	Location *	WS

Photo 3 of 3 : SP_2018_RD0349_205_1_20180305_00003.jpg



Unauthorized metal steps on the waterside slope levee mile 2.39.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

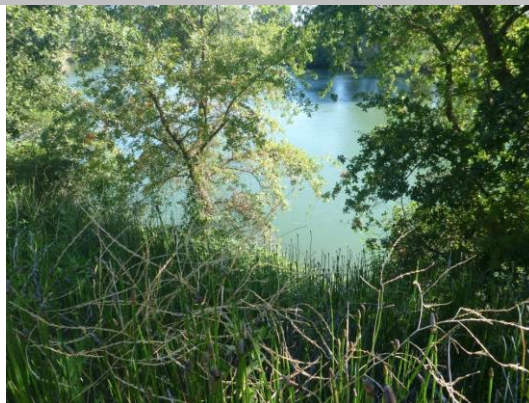
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

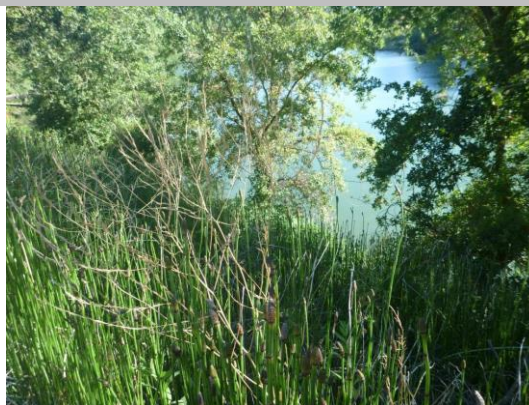
LM Start	2.43	Rating **	A/W	Issue No.	42
LM End	2.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.275131 °	38.275036 °
				-121.590594 °	-121.590461 °
DWR ID	DWR_RD0349_02_f_2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:District Station 128+76 to 129+27, Sec. 13, T. 5 N. R. 3 E., M.D.M. Approximately 51 linear feet of erosion exists along the water side slope of Steamboat Slough (Unit 2). The erosion area commences approximately 3/4 of the way down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.					
Site ID No:325					
Site Designation:LMA-152					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/28/2017					
Notes: access very difficult, steep slope, dense brush					

Photo 1 of 2 : SP_2018_RD0349_205_42_20180305_00036.jpg



LM Start	2.43	Rating **	A/W	Issue No.	42 (cont)
LM End	2.44	Issue Type +	Ma	Location *	

Photo 2 of 2 : SP_2018_RD0349_205_42_20180305_00037.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	2.44	Rating **	M	Issue No.	78
LM End	2.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.274897 °	38.269442 °
				-121.590571 °	-121.589802 °
DWR ID	DWR_RD0349_02_s_2018_78				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	2.56	Rating **	A/W	Issue No.	3
LM End	2.69	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.273854 °	38.271998 °
				-121.588745 °	-121.589424 °
DWR ID	DWR_RD0349_02_s_2016_3				
Comment Code					
Inspector Comment					
2011 - Toe scour at the tidal zone. 2015: New tree popout and minor new erosion. [2015 Site ID: STM_23-6_R]					

Photo 1 of 2 : SP_2018_RD0349_205_3_20180305_00004.jpg



USACE 2013 Photo #1

LM Start	2.56	Rating **	A/W	Issue No.	3 (cont)
LM End	2.69	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_RD0349_205_3_20180305_00005.jpg



USACE 2013 Photo #2

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	2.56	Rating **	A/W	Issue No.	43 (cont)
LM End	2.59	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.273769 °	38.273386 °
				-121.588742 °	-121.588672 °
DWR ID	DWR_RD0349_02_f_2017_43				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:District Station 135+81 to 137+00, Sec. 13, T. 5 N. R. 3 E., M.D.M. Approximately 119 linear feet of sloughing exists due to scour along the water side toe of Steamboat Slough (Unit 2). The erosion area commences approximately 3/4 of the way down the slope from the levee crown and extends to the waterside toe. No rip rap is visible in this area.					
Site ID No:326					
Site Designation:LMA-153					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/28/2017					
Notes: no berm					

Photo 3 of 3 : SP_2018_RD0349_205_43_20180305_00040.jpg



LM Start	2.87	Rating **	U	Issue No.	61
LM End	2.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.269471 °	38.268743 °
				-121.589826 °	-121.589480 °
DWR ID	DWR_RD0349_02_f_2017_61				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Thick brush, vines, horsetail and grass block visibility and access. Should be cleared.					

Photo 1 of 1 : SP_2018_RD0349_205_61_20180409_00117.jpg



Manage landside vegetation to allow inspection and access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	2.93	Rating **	M	Issue No.	79
LM End	2.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.268709 °	38.267938 °
				-121.589457 °	-121.588921 °
DWR ID	DWR_RD0349_02_s_2018_79				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	2.93	Rating **	M	Issue No.	98
LM End	2.93	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268674 °	38.268674 °
				-121.589419 °	-121.589419 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44328					
DS_ID:24159					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 6-inch irrigation pipe of					
unknown material through the levee, 1.5 feet below the levee crown.					
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento					
O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 3.1)]					
FS Date: 4/8/2015					

Photo 1 of 3 : UCIP_SP_2018_44328_73707.jpg



Pipe visible in water at WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

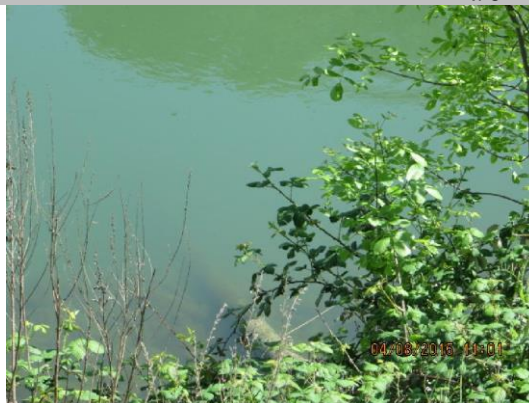
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	2.93	Rating **	M	Issue No.	98 (cont)	
LM End	2.93	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.268674 °	38.268674 °	
				-121.589419 °	-121.589419 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44328						
DS_ID:24159						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and should be done so properly.						
FIELD_STRUCT_DESC: *ABANDONED* 6-inch irrigation pipe of						
unknown material through the levee, 1.5 feet below the levee crown.						
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento						
O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 3.1)]						
FS Date: 4/8/2015						

Photo 2 of 3 : UCIP_SP_2018_44328_73706.jpg



Pipe visible in water at WS toe.

LM Start	2.93	Rating **	M	Issue No.	98 (cont)
LM End	2.93	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_44328_73705.jpg



No pipe visible on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	2.99	Rating **	U	Issue No.	80
LM End	3.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.267938 °	38.267004 °
				-121.588922 °	-121.588470 °
DWR ID	DWR_RD0349_02_s_2018_80				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Dense landscape vegetation and trees should be thinned or removed to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD0349_205_80_20180409_00118.jpg



Manage landside landscaping to allow inspection and access.

LM Start	3.02	Rating **	U	Issue No.	99
LM End	3.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.267471 °	38.267471 °
				-121.588659 °	-121.588659 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50015 DS_ID:24160 EP_NO: 655 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/17/2016 Dense vegetation limits the inspector's visibility to inspect levee section along pipe alignment. Previous inspection indicates holes visible on pipe wall. Need to contact owner to notify that pipe needs to be abandoned properly per Title 23 requirements. (DWR UCIP - omagana)4/8/2015 Pipe visible on WS slope and appears to be open. Pipe needs to be properly abandoned or verified as having been done so properly. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel siphon irrigation pipe through the levee, 3.7 feet below the crown. Pump on concrete blocks on the waterside (WS) slope. 2-inch galvanized conduit is buried along side of the 6-inch pipe. PG&E service was installed on the landside (LS). (6-inch pipe authorized under Permit No. 5350, 1966 - Enver Salman; 6-inch pipe replaced previous 8-inch pipe authorized under Permit No. 655, 1935 - M. S. Salman) [Additional Reference(s): USACE San Joaquin O&M Manual Unit No. 110, May 1959, HLM 3.2, Drawing No. 50-4-3042; unable to confirm if 8-inch pipe is the same pipe listed in the USACE O&M manual as HLM 3.2.]. FS Date: 8/17/2016					

Photo 1 of 3 : UCIP_SP_2018_50015_73709.jpg



Abandoned pipe visible on slope in vegetation behind new pipe on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.02	Rating **	U	Issue No.	99 (cont)
LM End	3.02	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.267471 °	38.267471 °	
			-121.588659 °	-121.588659 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:50015
DS_ID:24160
EP_NO: 655
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/17/2016 Dense vegetation limits the inspector's visibility to inspect levee section along pipe alignment. Previous inspection indicates holes visible on pipe wall. Need to contact owner to notify that pipe needs to be abandoned properly per Title 23 requirements. (DWR UCIP - omagana)4/8/2015 Pipe visible on WS slope and appears to be open. Pipe needs to be properly abandoned or verified as having been done so properly. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel siphon irrigation pipe through the levee, 3.7 feet below the crown. Pump on concrete blocks on the waterside (WS) slope. 2-inch galvanized conduit is buried along side of the 6-inch pipe. PG&E service was installed on the landside (LS). (6-inch pipe authorized under Permit No. 5350, 1966 - Enver Salman; 6-inch pipe replaced previous 8-inch pipe authorized under Permit No. 655, 1935 - M. S. Salman) [Additional Reference(s): USACE San Joaquin O&M Manual Unit No. 110, May 1959, HLM 3.2, Drawing No. 50-4-3042; unable to confirm if 8-inch pipe is the same pipe listed in the USACE O&M manual as HLM 3.2.].
FS Date: 8/17/2016

LM Start	3.02	Rating **	U	Issue No.	99 (cont)
LM End	3.02	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_50015_73708.jpg



Abandoned pipe visible on slope in vegetation behind new pipe on WS slope.

Photo 3 of 3 : UCIP_SP_2018_50015_75632.jpg



Pipe visible from opposite bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.02	Rating **	M	Issue No.	100
LM End	3.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.267453 °	38.267453 °
				-121.588668 °	-121.588668 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:44332
DS_ID:24199
EP_NO: 5350
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine if crossing is still in use. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Debris scattered on slopes--remove. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Unable to determine if crossing is in use. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.
FIELD_STRUCT_DESC: 6-inch steel irrigation pipe and 2-inch iron electrical conduit through the levee, 3.7 feet below the levee crown. Siphon breaker in pipe riser on waterside (WS) slope. Pump, switch panel, and butterfly valve on concrete blocks on the WS slope. Service pole on landside (LS) slope. (remove existing 8-inch water pipe and reinstall new 8-inch pipe and 2-inch electrical power conduit authorized under Permit No. 5350, 1966 - Enver Salman, 6-inch pipe installed and not 8-inch, refer to Inspector's notes page 9 of 27). [Additional Reference(s): DWR Levee Log, 2005]
FS Date: 4/8/2015

LM Start	3.02	Rating **	M	Issue No.	100 (cont)
LM End	3.02	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_44332_36679.jpg



View of waterward side--control panel, pipe, pump, and butterfly valve on WS slope.

Photo 2 of 3 : UCIP_SP_2018_44332_36681.jpg



Pipe and Steel riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.02	Rating **	M	Issue No.	100 (cont)
LM End	3.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.267453 °	38.267453 °
				-121.588668 °	-121.588668 °
DWR ID					
Comment Code					
Inspector Comment					
<p>FS_ID:44332 DS_ID:24199 EP_NO: 5350 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine if crossing is still in use. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Debris scattered on slopes--remove. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Unable to determine if crossing is in use. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe and 2-inch iron electrical conduit through the levee, 3.7 feet below the levee crown. Siphon breaker in pipe riser on waterside (WS) slope. Pump, switch panel, and butterfly valve on concrete blocks on the WS slope. Service pole on landside (LS) slope. (remove existing 8-inch water pipe and reinstall new 8-inch pipe and 2-inch electrical power conduit authorized under Permit No. 5350, 1966 - Enver Salman, 6-inch pipe installed and not 8-inch, refer to Inspector's notes page 9 of 27). [Additional Reference(s): DWR Levee Log, 2005] FS Date: 4/8/2015</p>					

Photo 3 of 3 : UCIP_SP_2018_44332_73710.jpg



Butterfly valve next to, electrical panel, pump, and hand pump on WS slope.

LM Start	3.07	Rating **	M	Issue No.	66
LM End	3.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.266786 °	38.263595 °
				-121.588438 °	-121.588630 °
DWR ID	DWR_RD0349_02_s_2018_66				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.15	Rating **	M	Issue No.	101 (cont)	
LM End	3.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.265608 °	38.265608 °	
				-121.588391 °	-121.588391 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:46172						
DS_ID:25099						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned and if so should be verified as having been done so properly.						
FIELD_STRUCT_DESC: *ABANDONED* 6-inch pipe of unknown material or purpose through the levee, 4.5 feet below the levee crown.						
Service pole at landside (LS) toe.						
FS Date: 4/2/2015						

Photo 3 of 3 : UCIP_SP_2018_46172_74555.jpg



Approximate pipe alignment on LS.

LM Start	3.18	Rating **	M	Issue No.	81
LM End	3.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.265185 °	38.265185 °
				-121.588426 °	-121.588426 °
DWR ID	DWR_RD0349_02_s_2018_81				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.18	Rating **	C	Issue No.	47
LM End	3.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.265144 °	38.265144 °
				-121.588438 °	-121.588438 °
DWR ID	DWR_RD0349_02_f_2017_47				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree and prunings piles from landside toe.					

No Photos

LM Start	3.29	Rating **	U	Issue No.	62
LM End	3.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.263594 °	38.262449 °
				-121.588629 °	-121.593726 °
DWR ID	DWR_RD0349_02_s_2018_62				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Thick berry vines completely block inspection and access to toe.					

Photo 1 of 1 : SP_2018_RD0349_205_62_20180409_00119.jpg



Remove berry vines to allow inspection and access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.31	Rating **	M	Issue No.	102	
LM End	3.31	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.263359 °	38.263359 °	
				-121.588721 °	-121.588721 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44333 DS_ID:24161 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 6-inch irrigation pipe of unknown material through the levee, 4.5 feet below the crown. Pump and switch panel located on the waterside (WS) slope. Service pole and concrete distribution box at landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 3.5)] FS Date: 4/8/2015						

Photo 1 of 3 : UCIP_SP_2018_44333_73713.jpg



Pipe, distribution box, and power pole visible on LS slope/toe.

LM Start	3.31	Rating **	M	Issue No.	102 (cont)
LM End	3.31	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_44333_73712.jpg



distribution box and pipe visible on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.31	Rating **	M	Issue No.	102 (cont)
LM End	3.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.263359 °	38.263359 °
				-121.588721 °	-121.588721 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44333					
DS_ID:24161					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 6-inch irrigation pipe of unknown material through the levee, 4.5 feet below the crown. Pump and switch panel located on the waterside (WS) slope. Service pole and concrete distribution box at landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 3.5)]					
FS Date: 4/8/2015					

Photo 3 of 3 : UCIP_SP_2018_44333_73711.jpg



Pipe and electrical conduit visible on WS slope.

LM Start	3.36	Rating **	M	Issue No.	63
LM End	3.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.262866 °	38.262866 °
				-121.589346 °	-121.589346 °
DWR ID	DWR_RD0349_02_f_2017_63				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Landside trees should be trimmed or thinned to allow inspection and access to levee slope and toe. Trees smaller than 4-inches in diameter at chest height should be removed.					

Photo 1 of 1 : SP_2018_RD0349_205_63_20180305_00053.jpg



Landside trees should be trimmed or thinned to allow inspection and access to levee slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

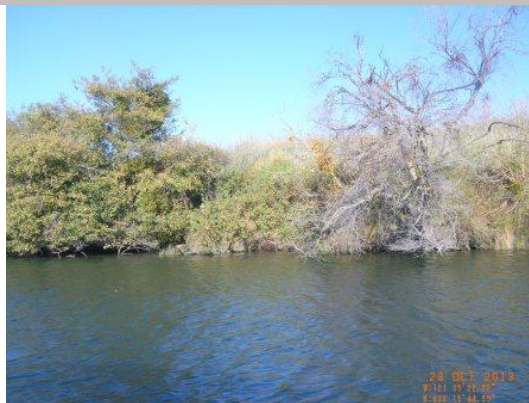
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.38	Rating **	M	Issue No.	11
LM End	3.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.262510 °	38.262533 °
				-121.589481 °	-121.591690 °
DWR ID	DWR_RD0349_02_s_2016_11				
Comment Code					
Inspector Comment					
2010 - Slumping sections on the lower bank, appears to be scouring around the trees. 2011 - Soil beach at toe. 2015: No observed changes. [2015 Site ID: STM_22-8_R]					

Photo 1 of 1 : SP_2018_RD0349_205_11_20180305_00011.jpg



USACE 2013 Photo #1

LM Start	3.66	Rating **	M	Issue No.	65
LM End	3.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261933 °	38.261933 °
				-121.594549 °	-121.594549 °
DWR ID	DWR_RD0349_02_f_2017_65				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim/thin fig trees and evergreen shrubs to allow visibility and access to levee slope.					

Photo 1 of 1 : SP_2018_RD0349_205_65_20180305_00054.jpg



Trim/thin fig trees and evergreen shrubs to allow visibility and access to levee slope.

LM Start	3.69	Rating **	M	Issue No.	50
LM End	3.69	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.261578 °	38.261578 °
				-121.594820 °	-121.594820 °
DWR ID	DWR_RD0349_02_f_2017_50				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the fallen tree from the levee slope and remove the cut up fire wood from the shoulder landward.					

Photo 1 of 2 : SP_2018_RD0349_205_50_20180305_00044.jpg



Landside slope levee mile 3.69.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.69	Rating **	M	Issue No.	50 (cont)	
LM End	3.69	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.261578 °		38.261578 °
				-121.594820 °		-121.594820 °
DWR ID	DWR_RD0349_02_f_2017_50					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Remove the fallen tree from the levee slope and remove the cut up fire wood from the shoulder landward.						

Photo 2 of 2 : SP_2018_RD0349_205_50_20180305_00045.jpg



Landside shoulder and slope levee mile 3.69.

LM Start	3.72	Rating **	M	Issue No.	69
LM End	4.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261187 °	38.254794 °
				-121.595043 °	-121.600080 °
DWR ID	DWR_RD0349_02_f_2017_69				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove thick grapevines to allow visibility and access to landside levee slope.					

No Photos

LM Start	3.72	Rating **	M	Issue No.	64
LM End	3.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261143 °	38.261143 °
				-121.595071 °	-121.595071 °
DWR ID	DWR_RD0349_02_s_2018_64				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove cactus (century plants) from waterside shoulder.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.72	Rating **	M	Issue No.	68
LM End	3.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.261128 °	38.261128 °
				-121.595080 °	-121.595080 °
DWR ID	DWR_RD0349_02_s_2018_68				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove metal pipe (12" dia x 35' long) from landside shoulder.					

No Photos

LM Start	3.72	Rating **	C	Issue No.	22
LM End	3.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.261111 °	38.261001 °
				-121.595062 °	-121.595052 °
DWR ID	DWR_RD0349_02_s_2012_22				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the levee slope.					

No Photos

LM Start	3.76	Rating **	U	Issue No.	59
LM End	3.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.260596 °	38.258123 °
				-121.592160 °	-121.595150 °
DWR ID	DWR_RD0349_02_f_2013_59				
Comment Code					
FE : Fence					
Inspector Comment					
Inside the fenced off area are several pet shelters and pens for chickens and goats on the landside levee slope and toe. This need to be taken off the levee section. In the event of a flood fight this area would cause delays in response time.					

Photo 1 of 1 : SP_2018_RD0349_205_59_20180305_00050.jpg



Unauthorized electric fence installed along the shoulder and levee slope landside .

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.80	Rating **	M	Issue No.	103
LM End	3.80	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.260007 °	38.260007 °
				-121.595273 °	-121.595273 °
DWR ID					

Comment Code

[illegible]

Inspector Comment

FS ID:21612

DS ID:24162

EP NO: 8188

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.

Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Unable to determine if crossing is in use. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.

FIELD_STRUCT_DESC: 12-inch steel irrigation pipe and 1.25-inch electrical conduit through the levee, 5.0 feet below the levee crown. Steel cutoff wall around pipe at center of levee. Siphon breaker on shoulder. Pump and pump house on the waterside (WS). Service pole, discharge box and concrete standpipe at landside (LS) toe. (12-inch pipe authorized under Permit No. 8188, 1973 - E. Salman, 10-inch pipe removed) [Additional Reference(s): DWR Levee Log, 2005]

FS Date: 3/18/2009

LM Start	3.80	Rating **	M	Issue No.	103 (cont)
LM End	3.80	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_21612_36684.jpg



Overview of waterward side--2 crossings.

Photo 2 of 3 : UCIP_SP_2018_21612_36682.jpg



View of crossing on waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.80	Rating **	M	Issue No.	103 (cont)	
LM End	3.80	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.260007 °	38.260007 °	
				-121.595273 °	-121.595273 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21612 DS_ID:24162 EP_NO: 8188 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Unable to determine if crossing is in use. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe and 1.25-inch electrical conduit through the levee, 5.0 feet below the levee crown. Steel cutoff wall around pipe at center of levee. Siphon breaker on shoulder. Pump and pump house on the waterside (WS). Service pole, discharge box and concrete standpipe at landside (LS) toe. (12-inch pipe authorized under Permit No. 8188, 1973 - E. Salman, 10-inch pipe removed) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/18/2009						

Photo 3 of 3 : UCIP_SP_2018_21612_36683.jpg



Overview of lanward side--appurtenances include distribution box, stand pipe, pump house, and control panel.

LM Start	3.81	Rating **	M	Issue No.	85
LM End	3.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.259882 °	38.257252 °
				-121.595245 °	-121.595403 °
DWR ID	DWR_RD0349_02_f_2015_85				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate the rodents from the levee section.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/06/2018 04/06/2018	Keith Millard

LM Start	3.81	Rating **	M	Issue No.	51
LM End	3.81	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.259832 °	38.259832 °	
			-121.595254 °	-121.595254 °	
DWR ID	DWR_RD0349_02_f_2017_51				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree from landside toe.					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

Waterway			Bank	Unit Miles
Unit No. 03 Sutter Slough			Left	6.50
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/6/2018 - 4/6/2018			
DWR Inspector	Keith Millard			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	0.00	Rating **	M	Issue No.	34
LM End	0.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.254795 °	38.266231 °
				-121.600083 °	-121.601878 °
DWR ID	DWR_RD0349_03_f_2017_34				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Waterside vegetation should be removed to 20 feet from crown to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD0349_206_34_20180305_00005.jpg



Waterside vegetation should be removed to 20 feet from crown to allow inspection and access.

LM Start	0.00	Rating **	M	Issue No.	32
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.254795 °	38.266230 °
				-121.600084 °	-121.601882 °
DWR ID	DWR_RD0349_03_s_2018_32				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control grasses and remove occasional berry vines.					

No Photos

LM Start	0.04	Rating **	M	Issue No.	37
LM End	0.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.255327 °	38.255327 °
				-121.600033 °	-121.600033 °
DWR ID	DWR_RD0349_03_f_2016_37				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree on the waterside slope (large). This tree will fall and block access to the levee crown roadway. Remove the dead tree from the levee section.					

Photo 1 of 1 : SP_2018_RD0349_206_37_20180305_00008.jpg



RD 349 Unit 4 levee mile 0.04 Dead tree on the waterside shoulder and crown roadway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	0.17	Rating **	M	Issue No.	38
LM End	1.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.257200 °	38.270755 °
				-121.599772 °	-121.603570 °
DWR ID	DWR_RD0349_03_s_2017_38				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

LM Start	0.30	Rating **	C	Issue No.	59
LM End	0.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.259081 °	38.259081 °
				-121.600046 °	-121.600046 °
DWR ID	DWR_RD0349_03_s_2014_59				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limb from the landside slope.					

No Photos

LM Start	0.76	Rating **	U	Issue No.	8
LM End	0.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.265637 °	38.265637 °
				-121.601640 °	-121.601640 °
DWR ID	DWR_RD0349_03_f_2017_8				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim large fig tree to allow visibility and access to landside levee slope.					

Photo 1 of 1 : SP_2018_RD0349_206_8_20180305_00001.jpg



Trim trees on landside at LM 0.76.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	0.77	Rating **	M	Issue No.	92
LM End	0.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.265751 °	38.265751 °
				-121.601655 °	-121.601655 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43442					
DS_ID:24163					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to find owner and notify of pipe deterioration.					
Owner will need to replace or remove per CVFPB Title 23 requirements.					
Dense vegetation limits the inspector's visibility to identify signs of pipe					
failure (leaks) through the levee slopes. Recommend removing					
vegetation along pipe alignment to conduct proper inspection of					
structure and appurtenances. Note date on photos should be 3/18/09					
not 7/26/08 camera metadata is incorrect.					
FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee,					
2.4 feet below the crown. Pump and gate valve in a pump house at the					
landside (LS) toe. Concrete standpipe on LS. [Additional Reference(s):					
DWR Levee Log, 2005]					
FS Date: 3/19/2009					

LM Start	0.77	Rating **	M	Issue No.	92 (cont)
LM End	0.77	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_43442_36707.jpg



View of waterward side--portion of pipe exposed on slope.

Photo 2 of 3 : UCIP_SP_2018_43442_36706.jpg



Pump house located at the landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	0.77	Rating **	M	Issue No.	92 (cont)	
LM End	0.77	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.265751 °	38.265751 °	
				-121.601655 °	-121.601655 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43442						
DS_ID:24163						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to find owner and notify of pipe deterioration.						
Owner will need to replace or remove per CVFPB Title 23 requirements.						
Dense vegetation limits the inspector's visibility to identify signs of pipe						
failure (leaks) through the levee slopes. Recommend removing						
vegetation along pipe alignment to conduct proper inspection of						
structure and appurtenances. Note date on photos should be 3/18/09						
not 7/26/08 camera metadata is incorrect.						
FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee,						
2.4 feet below the crown. Pump and gate valve in a pump house at the						
landside (LS) toe. Concrete standpipe on LS. [Additional Reference(s):						
DWR Levee Log, 2005]						
FS Date: 3/19/2009						

Photo 3 of 3 : UCIP_SP_2018_43442_36704.jpg



Pipe covered by dense vegetation.

LM Start	0.78	Rating **	M	Issue No.	9
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.265918 °	38.265918 °
				-121.601736 °	-121.601736 °
DWR ID	DWR_RD0349_03_f_2017_9				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Clear fallen branches from waterside slope and crown road.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	0.80	Rating **	M	Issue No.	44
LM End	0.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.266168 °	38.266168 °
				-121.601834 °	-121.601834 °
DWR ID	DWR_RD0349_03_s_2018_44				
Comment Code					
TA : Tank					
Inspector Comment					
300gal metal tank on shoulder.					

No Photos

LM Start	0.80	Rating **	M	Issue No.	67
LM End	0.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.266201 °	38.266201 °
				-121.601832 °	-121.601832 °
DWR ID	DWR_RD0349_03_s_2018_67				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Trees and limbs on landside shoulder and slope need to be cleared out to allow inspection and access.					

No Photos

LM Start	0.81	Rating **	U	Issue No.	68
LM End	1.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.266309 °	38.269859 °
				-121.601895 °	-121.603542 °
DWR ID	DWR_RD0349_03_s_2018_68				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0349_206_68_20180409_00089.jpg



Waterside vegetation should be reduced to 20' from crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	0.83	Rating **	U	Issue No.	69
LM End	1.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.266568 °	38.269859 °
				-121.601958 °	-121.603541 °
DWR ID	DWR_RD0349_03_s_2018_69				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0349_206_69_20180409_00090.jpg



Manage landside vegetation to allow inspection and access.

LM Start	0.85	Rating **	M	Issue No.	48
LM End	0.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.266801 °	38.266801 °
				-121.602085 °	-121.602085 °
DWR ID	DWR_RD0349_03_f_2017_48				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove or trim oleanders to allow visibility and access to landsiede levee slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

Reclamation District No. 0349 Sutter Island

Page 7 of 62

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	0.91	Rating **	M	Issue No.	93 (cont)	
LM End	0.91	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.267620 °	38.267620 °	
				-121.602458 °	-121.602458 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21673 DS_ID:24232 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No records were found during initial desk study--need to contact owner to obtain permit number authorizing work. Unable to determine if filter system is part of crossing appurtenances. If crossing is no longer used by owner, the owner will need to coordinate with DWR Inspector and CVFPB to remove crossing according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 2.0 feet below the levee crown. Pipe changes diameter, 10-inch along both shoulders and 8-inch diameter exit on waterside (WS). Pipe exposed along both slopes. Pump on WS. Filtration system and power pole on landside (LS). Rock revetment along WS slope. FS Date: 10/3/2013 9:42:00 AM						

Photo 3 of 3 : UCIP_SP_2018_21673_36852.jpg



View of siphon breaker.

LM Start	1.08	Rating **	M	Issue No.	10
LM End	1.08	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.270010 °	38.270010 °
				-121.603541 °	-121.603541 °
DWR ID	DWR_RD0349_03_f_2017_10				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree from landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.09	Rating **	M	Issue No.	49
LM End	1.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.270158 °	38.270158 °
				-121.603579 °	-121.603579 °
DWR ID	DWR_RD0349_03_s_2018_49				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove cactus.					

No Photos

LM Start	1.11	Rating **	M	Issue No.	51
LM End	1.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.270452 °	38.270452 °
				-121.603587 °	-121.603587 °
DWR ID	DWR_RD0349_03_f_2017_51				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.17	Rating **	M	Issue No.	94
LM End	1.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.271218 °	38.271218 °
				-121.603468 °	-121.603468 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44335 DS_ID:24166 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be done so properly or verified as having been done so properly. FIELD_STRUCT_DESC: 6-inch irrigation pipe of unknown material through the levee, 4.5 feet below the levee crown. Pump and pump house no longer on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 1.2)] FS Date: 4/9/2015					

Photo 1 of 2 : UCIP_SP_2018_44335_73721.jpg



Pipe visible on LS slope.

LM Start	1.17	Rating **	M	Issue No.	94 (cont)
LM End	1.17	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_44335_73720.jpg



Pipe visible on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.26	Rating **	M	Issue No.	95	
LM End	1.26	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.272515 °		38.272515 °
				-121.603048 °		-121.603048 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47043 DS_ID:24169 EP_NO: 11744 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 1 of 2: 8-inch steel irrigation pipe through the levee, 3.7 feet below the crown. 8-inch pipe is reduced to 3-inch pipe on the waterside (WS). Steel cutoff wall around pipe at center of levee. Siphon breaker at landside (LS) shoulder. Siphon breaker at LS shoulder. Slant pump on WS. Discharge structure at LS toe. Rock revetment on WS slope. (8-inch pipe authorized under Permit No. 11744, 1976 - J. Wiedman, also approved at different location is a 14-inch pipe through levee and 12-inch in the slopes) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009						

Photo 1 of 1 : UCIP_SP_2018_47043_36864.jpg



View of pipe, control panel, and stairs. 2 pipes go through levee 14-inch and 8-inch.

LM Start	1.26	Rating **	U	Issue No.	71
LM End	1.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.272528 °	38.275496 °
				-121.603044 °	-121.601273 °
DWR ID	DWR_RD0349_03_s_2018_71				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0349_206_71_20180409_00092.jpg



Manage landside vegetation to allow inspection and access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.26	Rating **	U	Issue No.	70
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.272528 °	38.275496 °
				-121.603043 °	-121.601272 °
DWR ID	DWR_RD0349_03_s_2018_70				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0349_206_70_20180409_00091.jpg



Waterside vegetation should be reduced to 20' from crown.

LM Start	1.26	Rating **	M	Issue No.	96
LM End	1.26	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.272532 °	38.272532 °
				-121.603039 °	-121.603039 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47042 DS_ID:24168 EP_NO: 11744 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation pipe and 2-inch electric conduit through the levee, 4.4 feet below the levee crown. Pipe section on both levee slopes reduced to 12-inch steel pipe . Steel cutoff wall around pipe at center of levee. Siphon breaker at landside (LS) shoulder. Slant pump on waterside (WS) with staircase access. Discharge structure at LS toe. Rock revetment on WS slope. (14-inch pipe through levee and 12-inch in the slopes authorized under Permit No. 11744, 1976 - J. Wiedman, also appoved at different location is a 8-inch pipe) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009					

Photo 1 of 3 : UCIP_SP_2018_47042_36856.jpg



Pump system located on waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.26	Rating **	M	Issue No.	96 (cont)	
LM End	1.26	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.272532 °	38.272532 °	
				-121.603039 °	-121.603039 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47042 DS_ID:24168 EP_NO: 11744 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation pipe and 2-inch electric conduit through the levee, 4.4 feet below the levee crown. Pipe section on both levee slopes reduced to 12-inch steel pipe . Steel cutoff wall around pipe at center of levee. Siphon breaker at landside (LS) shoulder. Slant pump on waterside (WS) with staircase access. Discharge structure at LS toe. Rock revetment on WS slope. (14-inch pipe through levee and 12-inch in the slopes authorized under Permit No. 11744, 1976 - J. Wiedman, also approved at different location is a 8-inch pipe) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009						

LM Start	1.26	Rating **	M	Issue No.	96 (cont)
LM End	1.26	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_47042_36857.jpg



Pipe reduced from 14-inch to 10-inch and conduit through levee.

Photo 3 of 3 : UCIP_SP_2018_47042_36858.jpg



Rip rap along the waterward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.47	Rating **	M	Issue No.	33
LM End	1.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.275308 °	38.275308 °
				-121.601342 °	-121.601342 °
DWR ID	DWR_RD0349_03_f_2017_33				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove remnants of 2 dead trees on landside slope.					

No Photos

LM Start	1.48	Rating **	M	Issue No.	72
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.275341 °	38.275341 °
				-121.601355 °	-121.601355 °
DWR ID	DWR_RD0349_03_s_2018_72				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.49	Rating **	M	Issue No.	73
LM End	5.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.275496 °	38.330972 °
				-121.601271 °	-121.584321 °
DWR ID	DWR_RD0349_03_s_2018_73				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

Reclamation District No. 0349 Sutter Island

No Photos

Aerial map showing alignment of 18-inch pipe.

Page 15 of 62

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.49	Rating **	M	Issue No.	97 (cont)	
LM End	1.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.275532 °		38.275532 °
				-121.601225 °		-121.601225 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43446						
DS_ID:24229						
EP_NO: 2954						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.						
FIELD_STRUCT_DESC: [R.D. No. 349 Drainage Pumping Plant] 1 of 3: 18-inch steel drainage pipe through the levee, 7.8 feet below the crown. Siphon breakers on waterside (WS) slope. Pumps on platform on landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 1.6)]						
FS Date: 3/19/2009						

Photo 2 of 2 : UCIP_SP_2018_43446_36726.jpg



View of all 3 pipes through levee and visible on waterward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.49	Rating **	M	Issue No.	98
LM End	1.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.275546 °	38.275546 °
				-121.601218 °	-121.601218 °

Comment Code

Inspector Comment

FS_ID:43445
DS_ID:24228
EP_NO: 2954
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.
FIELD_STRUCT_DESC: [R.D. No. 349 Drainage Pumping Plant] 2 of 3: 24-inch steel drainage pipe through the levee, 7.8 feet below the crown. Siphon breakers on waterside (WS) slope. Pumps on platform on landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 1.6)]
FS Date: 3/19/2009

LM Start	1.49	Rating **	M	Issue No.	98 (cont)
LM End	1.49	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_43445_36730.jpg



Enter photo 5 description or comment here.

Photo 2 of 3 : UCIP_SP_2018_43445_36727.jpg



View of pipe on waterward side--pipe running. Siphon breaker visible on pipe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.49	Rating **	M	Issue No.	98 (cont)	
LM End	1.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.275546 °	38.275546 °	
				-121.601218 °	-121.601218 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43445 DS_ID:24228 EP_NO: 2954 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: [R.D. No. 349 Drainage Pumping Plant] 2 of 3: 24-inch steel drainage pipe through the levee, 7.8 feet below the crown. Siphon breakers on waterside (WS) slope. Pumps on platform on landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 1.6)] FS Date: 3/19/2009						

Photo 3 of 3 : UCIP_SP_2018_43445_36728.jpg



Pipe is wrapped--unwrapped coating.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.49	Rating **	M	Issue No.	99
LM End	1.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.275570 °	38.275570 °
				-121.601222 °	-121.601222 °

Comment Code

Inspector Comment

FS_ID:21632
DS_ID:24171
EP_NO: 2954
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.
FIELD_STRUCT_DESC: [R.D. No. 349 Drainage Pumping Plant] 3 of 3: 24-inch steel drainage pipe through the levee, 7.8 feet below the crown. Metal cutoff wall around pipe at landside (LS) shoulder. Siphon breakers on waterside (WS) slope. Two anchor posts driven into levee on each side of pipe. Pumps on platform on LS. (additional pump and 24-inch pipe to existing district pumping plant authorized under Permit No. 2954, 1959 - Reclamation District No. 349 [RD0349]) [Additional Reference(s): DWR Levee Log, 2005]
FS Date: 3/19/2009

LM Start	1.49	Rating **	M	Issue No.	99 (cont)
LM End	1.49	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_21632_36733.jpg



Aerial view of all 3 pipes through levee.

Photo 2 of 3 : UCIP_SP_2018_21632_36731.jpg



View of waterward side--2-24 inch pipes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.49	Rating **	M	Issue No.	99 (cont)	
LM End	1.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.275570 °	38.275570 °	
				-121.601222 °	-121.601222 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21632 DS_ID:24171 EP_NO: 2954 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: [R.D. No. 349 Drainage Pumping Plant] 3 of 3: 24-inch steel drainage pipe through the levee, 7.8 feet below the crown. Metal cutoff wall around pipe at landside (LS) shoulder. Siphon breakers on waterside (WS) slope. Two anchor posts driven into levee on each side of pipe. Pumps on platform on LS. (additional pump and 24-inch pipe to existing district pumping plant authorized under Permit No. 2954, 1959 - Reclamation District No. 349 [RD0349]) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009						

Photo 3 of 3 : UCIP_SP_2018_21632_36734.jpg



All 3 pipes visible on waterward side--tall grass limits inspection on waterward side.

LM Start	1.69	Rating **	U	Issue No.	39
LM End	1.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.278289 °	38.279339 °
				-121.600372 °	-121.600306 °
DWR ID	DWR_RD0349_03_f_2017_39				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove caactus and trim and thin evergreens to allow insection and access.					

Photo 1 of 1 : SP_2018_RD0349_206_39_20180305_00009.jpg



Landscaping on landside at LM 1.67.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.82	Rating **	M	Issue No.	100
LM End	1.82	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.280199 °	38.280199 °
				-121.600500 °	-121.600500 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47045					
DS_ID:24172					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.					
FIELD_STRUCT_DESC: 1 of 2: 12-inch irrigation pipe of unknown material and 2-inch electrical conduit through the levee, 8.0 feet below the levee crown. Siphon breaker in pipe riser on landside (LS) slope. Concrete standpipe at LS toe. Pump on waterside (WS) with stairway access. [Additional Reference(s): DWR Levee Log, 2005]					
FS Date: 3/19/2009					

Photo 1 of 3 : UCIP_SP_2018_47045_36736.jpg



View of waterward side--pump, pipe, control panel, and stairway.

LM Start	1.82	Rating **	M	Issue No.	100 (cont)
LM End	1.82	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_47045_36735.jpg



Stand pipe located on landward shoulder--pipe locked.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	1.82	Rating **	M	Issue No.	100 (cont)	
LM End	1.82	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.280199 °		38.280199 °
				-121.600500 °		-121.600500 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47045						
DS_ID:24172						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 1 of 2: 12-inch irrigation pipe of unknown material and 2-inch electrical conduit through the levee, 8.0 feet below the levee crown. Siphon breaker in pipe riser on landside (LS) slope. Concrete standpipe at LS toe. Pump on waterside (WS) with stairway access. [Additional Reference(s): DWR Levee Log, 2005]						
FS Date: 3/19/2009						

Photo 3 of 3 : UCIP_SP_2018_47045_36737.jpg



Tall thin stand pipe located on landward side--unable to find pipe.

LM Start	1.92	Rating **	M	Issue No.	2
LM End	1.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.310959 °	38.311288 °
				-121.597748 °	-121.596972 °
DWR ID	DWR_RD0349_03_s_2016_2				
Comment Code					
Inspector Comment					
2015: Tall vertical sections into the levee slope and erosion along the toe. [2015 Site ID: STR_26-1_R]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	2.00	Rating **	M	Issue No.	101
LM End	2.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.282498 °	38.282498 °
				-121.601758 °	-121.601758 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21634 DS_ID:24173 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 6.7 feet below the levee crown. Pump in pump house and concrete standpipe located on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 2.1)] FS Date: 3/19/2009					

Photo 1 of 2 : UCIP_SP_2018_21634_36739.jpg



View of landward side--pump house and stand pipe.

LM Start	2.00	Rating **	M	Issue No.	101 (cont)
LM End	2.00	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_21634_36738.jpg



View of waterward side--dense vegetation limits inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	2.47	Rating **	M	Issue No.	40
LM End	2.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.288256 °	38.289297 °
				-121.603384 °	-121.603306 °
DWR ID	DWR_RD0349_03_f_2017_40				
Comment Code					
EQ : Equipment					
Inspector Comment					
Move ag equipment away from landside toe to allow a minimum 10 foot access.					

No Photos

LM Start	2.55	Rating **	U	Issue No.	41
LM End	2.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.289420 °	38.292202 °
				-121.603321 °	-121.603669 °
DWR ID	DWR_RD0349_03_f_2017_41				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0349_206_41_20180305_00010.jpg



Trim trees at LM 2.84.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

Reclamation District No. 0349 Sutter Island

Pipe visible on waterward side.

Page 25 of 62

Reclamation District No. 0349 Sutter Island

LM Start	2.56	Rating **	M	Issue No.	102 (cont)	
LM End	2.56	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.289633 °	38.289633 °	
				-121.603313 °	-121.603313 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43423 DS_ID:24176 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner--If crossing is no longer used by owner, the owner will need to coordinate with DWR Inspector and CVFPB to remove crossing according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation pipe through the levee, 8.2 feet below the levee crown. Pipe has plate welded on the waterside (WS) end. 3-inch galvanized pipe runs parallel to 10-inch pipe. Abandoned tank on WS slope. Distribution box and concrete standpipe at landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 2.7)] FS Date: 3/19/2009						

A large, cylindrical concrete water storage tank stands in a rural, hilly landscape. The tank is light-colored and has a metal pipe protruding from its top. It is situated on a patch of dry, brownish ground with some sparse green grass. In the background, there are several bare trees and a fence line. The foreground is filled with lush green grass and some small white plastic containers are visible near the base of the tank.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	2.77	Rating **	M	Issue No.	103	
LM End	2.77	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.292557 °	38.292557 °	
				-121.603767 °	-121.603767 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43424 DS_ID:24177 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 2007 Erosion Repair Site location?--Need to contact owner to determine if crossing is still in use. If crossing is no longer used by owner, the owner will need to coordinate with DWR Inspector and CVFPB to remove crossing according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation pipe through the levee, 8.7 feet below the crown. Headwall and gate valve on the landside (LS). (re-installation of 8-inch pipe on waterside (WS) authorized under Permit No. 18345, 2012 - Wheeler and Thomas LLC) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009						

LM Start	2.77	Rating **	M	Issue No.	103 (cont)
LM End	2.77	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_43424_36869.jpg



Waterward side--appears to be an erosion repair site. New pipe on waterward side and damaged pipe on landward side.

Photo 2 of 3 : UCIP_SP_2018_43424_36871.jpg



View of waterward side--headwall, pipe, and gate valve.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	2.77	Rating **	M	Issue No.	103 (cont)	
LM End	2.77	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.292557 °	38.292557 °	
				-121.603767 °	-121.603767 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43424 DS_ID:24177 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 2007 Erosion Repair Site location?--Need to contact owner to determine if crossing is still in use. If crossing is no longer used by owner, the owner will need to coordinate with DWR Inspector and CVFPB to remove crossing according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation pipe through the levee, 8.7 feet below the crown. Headwall and gate valve on the landside (LS). (re-installation of 8-inch pipe on waterside (WS) authorized under Permit No. 18345, 2012 - Wheeler and Thomas LLC) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009						

Photo 3 of 3 : UCIP_SP_2018_43424_36868.jpg



View of landward side--dense vegetation on slope limits inspection.

LM Start	2.83	Rating **	M	Issue No.	35
LM End	2.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.293482 °	38.295376 °
				-121.604053 °	-121.604726 °
DWR ID	DWR_RD0349_03_s_2018_35				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	2.88	Rating **	U	Issue No.	104 (cont)	
LM End	2.88	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.294080 °	38.294080 °	
				-121.604260 °	-121.604260 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50014 DS_ID:24178 EP_NO: 6321 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/17/2016 Unable to determine condition of crossing due to dense vegetation on both WS and LS. Need to contact owner to determine status of crossing. Unable to confirm if WS pipe capped with metal plate. (DWR UCIP - omagana)4/08/2015 Appears abandoned and if so should be done so properly. Pipe open at LS toe. Unable to verify if plate is welded over WS end. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation pipe through the levee, 4.5 feet below the crown. Corrugated metal cutoff wall around pipe at center of levee. Siphon breaker is located on the waterside (WS) shoulder. Pump is located on the landside (LS). Gate valve is located on the WS. 1.5-inch filler pipe at same location. Plate welded to WS end. (8-inch installed under Permit No. 6321, 1969 - B.C. Wheeler; re-installation of 8-inch pipe on waterside (WS) authorized under Permit No. 18345, 2012 - Wheeler and Thomas LLC). [Additional Reference(s): DWR Levee Log, 2005] FS Date: 8/17/2016						

Photo 3 of 3 : UCIP_SP_2018_50014_73741.jpg



Abandoned pump at LS toe.

LM Start	3.27	Rating **	M	Issue No.	43
LM End	3.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.299089 °	38.299607 °
				-121.602037 °	-121.601230 °
DWR ID	DWR_RD0349_03_f_2017_43				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	3.34	Rating **	M	Issue No.	105
LM End	3.34	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.299703 °	38.299703 °
				-121.601112 °	-121.601112 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44389 DS_ID:24179 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing altered--need to contact owner to obtain permit number authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: *DELETE* FS Date: 4/9/2015					

LM Start	3.34	Rating **	M	Issue No.	105 (cont)
LM End	3.34	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_44389_36873.jpg



View of waterward side--pump, control panel, pipe, and walkway.

Photo 2 of 3 : UCIP_SP_2018_44389_36875.jpg



Corrugated metal riser located on waterward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	3.34	Rating **	M	Issue No.	105 (cont)	
LM End	3.34	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.299703 °	38.299703 °	
				-121.601112 °	-121.601112 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44389 DS_ID:24179 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing altered--need to contact owner to obtain permit number authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: *DELETE* FS Date: 4/9/2015						

Photo 3 of 3 : UCIP_SP_2018_44389_36874.jpg



View of landward side.

LM Start	3.34	Rating **	M	Issue No.	106	
LM End	3.34	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.299718 °	38.299718 °	
				-121.601095 °	-121.601095 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44390						
DS_ID:24214						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Walway and pier abandoned and appears to be a hazard that should be removed.						
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 5.8-feet below the levee crown. Pump, butterfly valve, and electrical panel on waterside (WS) slope. Pier and walkway next to pump on WS slope. Power pole, filters, and distribution box at landside (LS) toe.						
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 3.5)]						
FS Date: 4/9/2015						

Photo 1 of 2 : UCIP_SP_2018_44390_73745.jpg



Pipe, filter system, powerpole, and distribution box at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	3.34	Rating **	M	Issue No.	106 (cont)	
LM End	3.34	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.299718 °	38.299718 °	
				-121.601095 °	-121.601095 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44390 DS_ID:24214 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Walway and pier abandoned and appears to be a hazard that should be removed. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 5.8-feet below the levee crown. Pump, butterfly valve, and electrical panel on waterside (WS) slope. Pier and walkway next to pump on WS slope. Power pole, filters, and distribution box at landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 3.5)] FS Date: 4/9/2015						

Photo 2 of 2 : UCIP_SP_2018_44390_73746.jpg



Pump, electrical panel, butterfly valve, and walkway on WS slope.

LM Start	3.39	Rating **	M	Issue No.	45
LM End	3.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.300204 °	38.300204 °
				-121.600469 °	-121.600469 °
DWR ID	DWR_RD0349_03_f_2017_45				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove large cactus.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	3.77	Rating **	M	Issue No.	107
LM End	3.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.305300 °	38.305300 °
				-121.598620 °	-121.598620 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21644 DS_ID:24180 EP_NO: 9290 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/16/2018 Levee logs indicates a 10-inch pipe present at this location however, permit records show pipe authorized and installed is 6-inch pipe. Need to field measure the WS pipe and update structure description. (DWR UCIP - O. Magana) 03/19/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 10-inch steel irrigation pipe and 1.5-inch steel electrical conduit through the levee, 4.0 feet below the crown. Steel cutoff wall around pipe and conduit at center of levee. Pump and gate valve located on the waterside (WS) slope. 6-inch intake pipe extends from pump into channel. Distribution system at landside (LS) toe. (6-inch pipe and pump authorized under Permit No. 9290, 1975 - C. Van Loben Sels, 6-inch installed) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009					

LM Start	3.77	Rating **	M	Issue No.	107 (cont)
LM End	3.77	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_21644_36780.jpg



View of waterward side.

Photo 2 of 3 : UCIP_SP_2018_21644_36778.jpg



90 elbow at daylight and continues along slope and connects to pump.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

Reclamation District No. 0349 Sutter Island

Appurtenances located on waterward slope.

Page 35 of 62

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	3.96	Rating **	M	Issue No.	108
LM End	3.96	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.307507 °	38.307507 °	
			-121.596875 °	-121.596875 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43454 DS_ID:24182 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: *ABANDONED* 7-inch pipe of unknown material or purpose through the levee, 2.0 feet below the levee crown. [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009					

No Photos

LM Start	3.96	Rating **	M	Issue No.	109
LM End	3.96	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.307519 °	38.307519 °	
			-121.596876 °	-121.596876 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43456 DS_ID:24181 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: *REMOVED* 10-inch irrigation pipe of unknown through the levee, 3.5 feet below the crown. Pump and gate valve in pump house at the landside (LS) toe. (removed existing 10-inch and replaced with new 10-inch pipe under Permit No. 15503, 1990 - A. Ostman) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 4.2)] FS Date: 3/19/2009					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	3.96	Rating **	M	Issue No.	110
LM End	3.96	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.307533 °	38.307533 °
				-121.596881 °	-121.596881 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43455 DS_ID:24201 EP_NO: 15503 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 3.0 feet below the crown. Steel cutoff wall around pipe 24-inches landward of levee center. Pump and gate valve in pump house at the landside (LS) toe. Pipe is exposed along waterside (WS) slope. (10-inch pipe under Permit No. 15503, 1990 - A. Ostman, existing 10-inch removed) FS Date: 3/19/2009					

Photo 1 of 2 : UCIP_SP_2018_43455_36783.jpg



Pump house located on landward side.

LM Start	3.96	Rating **	M	Issue No.	110 (cont)
LM End	3.96	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_43455_36782.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

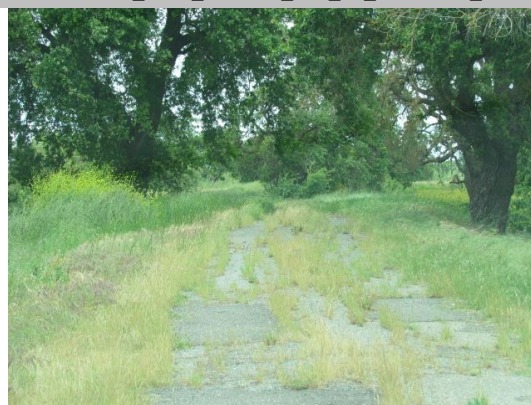
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	3.96	Rating **	M	Issue No.	75
LM End	3.96	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.307532 °	38.307532 °
				-121.596888 °	-121.596888 °
DWR ID	DWR_RD0349_03_s_2018_75				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree on landside slope.					

No Photos

LM Start	3.99	Rating **	M	Issue No.	50
LM End	4.91	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.307972 °	38.318371 °
				-121.597037 °	-121.589593 °
DWR ID	DWR_RD0349_03_s_2017_50				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Keep the crown roadway free of vegetation.					

Photo 1 of 1 : SP_2018_RD0349_206_50_20180305_00014.jpg



RD 349 Unit 4 levee mile 3.99 -6.33 crown roadway.

LM Start	3.99	Rating **	U	Issue No.	25
LM End	3.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.307997 °	38.307997 °
				-121.597039 °	-121.597039 °
DWR ID	DWR_RD0349_03_s_2012_25				
Comment Code					
FE : Fence					
Inspector Comment					
Unauthorized cable gate crossing levee. Cable gates crossing the levee crown have been prohibited. This encroachment should be removed.					

Photo 1 of 1 : SP_2018_RD0349_206_25_20180305_00003.jpg



Cable crossings has been banned. They are unauthorized.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	4.12	Rating **	M	Issue No.	46
LM End	4.12	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.309669 °	38.309669 °
				-121.598068 °	-121.598068 °
DWR ID	DWR_RD0349_03_f_2017_46				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim trees to 12 feet above crown road.					

Photo 1 of 1 : SP_2018_RD0349_206_46_20180305_00011.jpg



Trim trees to 12 feet above crown road.

LM Start	4.20	Rating **	M	Issue No.	78
LM End	4.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.310528 °	38.310528 °
				-121.597180 °	-121.597180 °
DWR ID	DWR_RD0349_03_f_2014_78				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Dead tree need removing from levee section.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	4.26	Rating **	M	Issue No.	111
LM End	4.26	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.310896 °	38.310896 °
				-121.596242 °	-121.596242 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43458 DS_ID:24183 EP_NO: 8681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 1 of 2: 6-inch steel irrigation pipe and 1.5-inch steel electrical conduit through the levee, 4.1 feet and 2.0 feet below the crown, respectively. Steel cutoff wall around pipe and conduit at center of levee. Pump on platform and gate valve on the waterside (WS) slope, not connected. Exposed suction pipe from pump to channel. Rock revetment on WS slope. (12-inch and 6-inch with pump authorized under Permit No. 8681, 1973 - C. Van Loben Sels) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009					

A photograph showing a riverbank with a red and white striped barrier, a rusty metal structure, and a large, rusted metal pipe lying on the ground. The river is visible in the background, and there are some trees and bushes on the bank.

View of waterward side. 2 crossing visible 12-inch and 6-inch pipes.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	4.26	Rating **	M	Issue No.	112	
LM End	4.26	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.310905 °	38.310905 °	
				-121.596226 °	-121.596226 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43457 DS_ID:24184 EP_NO: 8681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Is filter sytem located on landward side part of crossing. If so need permit number authorizing work. Also if crossing is no longer used by owner, the owner will need to coordinate with DWR Inspector and CVFPB to remove crossing according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 2 of 2: 12-inch steel irrigation pipe through the levee, 4.3 feet below the crown. Steel cutoff wall around pipe at center of levee. Pump on platform and gate valve on the waterside (WS) slope. Exposed suction pipe from pump to channel. Rock revetment on WS slope. (12-inch and 6-inch with pump authorized under Permit No. 8681, 1973 - C. Van Loben Sels) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009						

LM Start	4.26	Rating **	M	Issue No.	112 (cont)
LM End	4.26	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_43457_36793.jpg



View of waterward side. 2 crossing visible 12-inch and 6-inch pipes.

Photo 2 of 3 : UCIP_SP_2018_43457_36792.jpg



Pump associated with 12-inch pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	4.26	Rating **	M	Issue No.	112 (cont)	
LM End	4.26	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.310905 °	38.310905 °	
				-121.596226 °	-121.596226 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43457 DS_ID:24184 EP_NO: 8681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Is filter sytem located on landward side part of crossing. If so need permit number authorizing work. Also if crossing is no longer used by owner, the owner will need to coordinate with DWR Inspector and CVFPB to remove crossing according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 2 of 2: 12-inch steel irrigation pipe through the levee, 4.3 feet below the crown. Steel cutoff wall around pipe at center of levee. Pump on platform and gate valve on the waterside (WS) slope. Exposed suction pipe from pump to channel. Rock revetment on WS slope. (12-inch and 6-inch with pump authorized under Permit No. 8681, 1973 - C. Van Loben Sels) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009						

Photo 3 of 3 : UCIP_SP_2018_43457_36790.jpg



View of pipe and filter system on landward side.

LM Start	4.48	Rating **	M	Issue No.	76
LM End	4.48	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.312980 °	38.312980 °
				-121.593081 °	-121.593081 °
DWR ID	DWR_RD0349_03_s_2018_76				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	4.52	Rating **	M	Issue No.	77
LM End	4.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.313317 °	38.313317 °
				-121.592608 °	-121.592608 °
DWR ID	DWR_RD0349_03_s_2018_77				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.55	Rating **	M	Issue No.	113
LM End	4.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.313659 °	38.313659 °
				-121.592159 °	-121.592159 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43459 DS_ID:24185 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No connection present--need to contact owner to determine if owner plans to use. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Recommend removing vegetation along pipe alignment. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation pipe and 2-inch electrical conduit through the levee, both 2.8 feet below the levee crown. Abandoned pumps and gate valve on the waterside (WS) slope. Service pole on the landside (LS) slope. Concrete headwall on LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 4.8)] FS Date: 3/19/2009					

Photo 1 of 3 : UCIP_SP_2018_43459_36796.jpg



Waterward side--pipe visible through dense vegetation.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	4.55	Rating **	M	Issue No.	113 (cont)	
LM End	4.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.313659 °	38.313659 °	
				-121.592159 °	-121.592159 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43459 DS_ID:24185 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No connection present--need to contact owner to determine if owner plans to use. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Recommend removing vegetation along pipe alignment. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation pipe and 2-inch electrical conduit through the levee, both 2.8 feet below the levee crown. Abandoned pumps and gate valve on the waterside (WS) slope. Service pole on the landside (LS) slope. Concrete headwall on LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 4.8)] FS Date: 3/19/2009						

LM Start	4.55	Rating **	M	Issue No.	113 (cont)
LM End	4.55	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_43459_36795.jpg



Pump located on waterward side is not connected.

Photo 3 of 3 : UCIP_SP_2018_43459_36797.jpg



Pipe on waterward side.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	4.56	Rating **	M	Issue No.	52
LM End	4.56	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.313758 °	38.313758 °
				-121.592080 °	-121.592080 °
DWR ID	DWR_RD0349_03_f_2017_52				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.64	Rating **	M	Issue No.	54
LM End	4.64	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.314770 °	38.314770 °
				-121.591497 °	-121.591497 °
DWR ID	DWR_RD0349_03_s_2018_54				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.67	Rating **	M	Issue No.	79
LM End	4.67	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.315218 °	38.315218 °
				-121.591301 °	-121.591301 °
DWR ID	DWR_RD0349_03_s_2018_79				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side WS : Water Side CR : Crown		A : Acceptable M : Minimally Acceptable U : Unacceptable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
N/A : Not Applicable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	4.71	Rating **	M	Issue No.	53
LM End	4.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.315813 °	38.315813 °
				-121.590960 °	-121.590960 °
DWR ID	DWR_RD0349_03_f_2017_53				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim tree to 12 feet above crown road, also remove low branch on waterside sholder.					

Photo 1 of 1 : SP_2018_RD0349_206_53_20180305_00015.jpg



Trim trees to 12 feet above crown road.

LM Start	4.74	Rating **	M	Issue No.	55
LM End	4.74	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.316182 °	38.316182 °
				-121.590745 °	-121.590745 °
DWR ID	DWR_RD0349_03_s_2018_55				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.77	Rating **	M	Issue No.	80
LM End	4.77	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.316579 °	38.316579 °
				-121.590501 °	-121.590501 °
DWR ID	DWR_RD0349_03_s_2018_80				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	4.79	Rating **	M	Issue No.	56
LM End	4.79	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.316767 °	38.316767 °
				-121.590391 °	-121.590391 °
DWR ID	DWR_RD0349_03_f_2017_56				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim trees to 12 feet above levee crown.					

Photo 1 of 1 : SP_2018_RD0349_206_56_20180305_00017.jpg



Trim trees to 12 feet above levee crown.

LM Start	4.80	Rating **	M	Issue No.	114	
LM End	4.80	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.316968 °	38.316968 °	
				-121.590219 °	-121.590219 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43431 DS_ID:24186 EP_NO: 15359 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe sleeved through a 12-inch conductor pipe through the levee, 6.0 feet below the levee crown. Siphon breaker in protective house at levee shoulder. Pump in pump house and power pole at landside (LS) toe. Pipe connected to 8-inch exposed pipe at LS shoulder, extending to pump house. Filter screen in channel at waterside (WS) toe. (existing 4-inch pipe removed and new 10-inch sleeved through 12-inch installed under Permit No. 15359, 1990 - E. Delta Orchards) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009						

Photo 1 of 3 : UCIP_SP_2018_43431_36800.jpg



Air vent located on pipe on landward.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	4.80	Rating **	M	Issue No.	114 (cont)	
LM End	4.80	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.316968 °	38.316968 °	
				-121.590219 °	-121.590219 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43431 DS_ID:24186 EP_NO: 15359 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe sleeved through a 12-inch conductor pipe through the levee, 6.0 feet below the levee crown. Siphon breaker in protective house at levee shoulder. Pump in pump house and power pole at landside (LS) toe. Pipe connected to 8-inch exposed pipe at LS shoulder, extending to pump house. Filter screen in channel at waterside (WS) toe. (existing 4-inch pipe removed and new 10-inch sleeved through 12-inch installed under Permit No. 15359, 1990 - E. Delta Orchards) [Additional Reference(s): DWR Levee Log, 2005] FS Date: 3/19/2009						

LM Start	4.80	Rating **	M	Issue No.	114 (cont)
LM End	4.80	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_43431_36801.jpg



Pipe located on waterward side.

Photo 3 of 3 : UCIP_SP_2018_43431_36798.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	4.91	Rating **	M	Issue No.	47
LM End	5.59	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.318371 °	38.326229 °
				-121.589593 °	-121.584754 °
DWR ID	DWR_RD0349_03_f_2017_47				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0349_206_47_20180305_00012.jpg



Crown vegetation at LM 4.92.

LM Start	4.96	Rating **	M	Issue No.	57
LM End	4.99	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.319073 °	38.319491 °
				-121.589639 °	-121.589634 °
DWR ID	DWR_RD0349_03_s_2018_57				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.01	Rating **	M	Issue No.	81
LM End	5.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.319835 °	38.319835 °
				-121.589601 °	-121.589601 °
DWR ID	DWR_RD0349_03_s_2018_81				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.05	Rating **	M	Issue No.	82
LM End	5.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.320362 °	38.320362 °
				-121.589623 °	-121.589623 °
DWR ID	DWR_RD0349_03_s_2018_82				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.06	Rating **	M	Issue No.	3
LM End	5.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.320491 °	38.322233 °
				-121.589927 °	-121.590127 °
DWR ID	DWR_RD0349_03_s_2016_3				
Comment Code					
Inspector Comment					
2015: Large Tree popout and tall vertical sections into the levee slope. [2015 Site ID: STR_26-9_L]					

No Photos

LM Start	5.06	Rating **	M	Issue No.	83
LM End	5.06	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.320617 °	38.320617 °
				-121.589650 °	-121.589650 °
DWR ID	DWR_RD0349_03_s_2018_83				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.09	Rating **	M	Issue No.	58
LM End	5.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.320934 °	38.320934 °
				-121.589686 °	-121.589686 °
DWR ID	DWR_RD0349_03_f_2017_58				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.15	Rating **	M	Issue No.	84
LM End	5.15	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.321812 °	38.321812 °
				-121.589753 °	-121.589753 °
DWR ID	DWR_RD0349_03_s_2018_84				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.19	Rating **	M	Issue No.	115	
LM End	5.19	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.322448 °	38.322448 °	
				-121.589675 °	-121.589675 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43433						
DS_ID:24188						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Walkway is no longer functional. Need to contact owner--if crossing is no longer used owner will need to coordinate with DWR Inspector and CVFPB. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect.						
FIELD_STRUCT_DESC: 12-inch irrigation pipe of unknown material through the levee, 6.2 feet below the crown. Pump and control panel on piling structure in stream, with walkway. Service pole and concrete standpipe on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 5.5)]						
FS Date: 3/19/2009						

LM Start	5.19	Rating **	M	Issue No.	115 (cont)
LM End	5.19	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_SP_2018_43433_70484.jpg



View of landward side--pipe and stand pipe visible.

Photo 2 of 2 : UCIP_SP_2018_43433_70483.jpg



View of waterward side--pipe and remaining appurtenances.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.19	Rating **	M	Issue No.	116
LM End	5.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.322460 °	38.322460 °
				-121.589690 °	-121.589690 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44391 DS_ID:24189 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 4-inch irrigation pipe of unknown material through the levee, 3.3 feet below the crown. Gate and pump on platform at the landside (LS) toe (missing). Platform on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 5.6)] FS Date: 4/9/2015					

Photo 1 of 3 : UCIP_SP_2018_44391_73749.jpg



4-inch pipe next to larger pipe on LS slope.

LM Start	5.19	Rating **	M	Issue No.	116 (cont)
LM End	5.19	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_44391_73748.jpg



4-inch pipe next to larger pipe on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.19	Rating **	M	Issue No.	116 (cont)	
LM End	5.19	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.322460 °	38.322460 °	
				-121.589690 °	-121.589690 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44391 DS_ID:24189 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 4-inch irrigation pipe of unknown material through the levee, 3.3 feet below the crown. Gate and pump on platform at the landside (LS) toe (missing). Platform on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 110, May 1959, revised 29 Dec 2016, (HLM 5.6)] FS Date: 4/9/2015						

Photo 3 of 3 : UCIP_SP_2018_44391_73747.jpg



Pier on WS toe.

LM Start	5.24	Rating **	M	Issue No.	85
LM End	5.28	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.322848 °	38.322992 °
				-121.588906 °	-121.588272 °
DWR ID	DWR_RD0349_03_s_2018_85				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.30	Rating **	M	Issue No.	86
LM End	5.31	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.323070 °	38.323125 °
				-121.587923 °	-121.587726 °
DWR ID	DWR_RD0349_03_s_2018_86				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.33	Rating **	M	Issue No.	87
LM End	5.36	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.323204 °	38.323373 °
				-121.587392 °	-121.586898 °
DWR ID	DWR_RD0349_03_s_2018_87				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.37	Rating **	M	Issue No.	42
LM End	5.37	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.323446 °	38.323446 °
				-121.586792 °	-121.586792 °
DWR ID	DWR_RD0349_03_f_2017_42				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Berry bushes should be removed from waterside shoulder.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.39	Rating **	U	Issue No.	21
LM End	5.39	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.323659 °	38.323659 °
				-121.586421 °	-121.586421 °
DWR ID	DWR_RD0349_03_f_2017_21				
Comment Code					
FE : Fence					
Inspector Comment					
Cable gates are banned. Must remove. No lock on this gate.					

Photo 1 of 1 : SP_2018_RD0349_206_21_20180305_00002.jpg



Cable gates are banned. Must remove. No lock on this gate.

LM Start	5.40	Rating **	M	Issue No.	60
LM End	5.42	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.323767 °	38.323966 °
				-121.586269 °	-121.586029 °
DWR ID	DWR_RD0349_03_f_2017_60				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim trees to 12 feet above levee crown.					

Photo 1 of 1 : SP_2018_RD0349_206_60_20180305_00018.jpg



Trim trees to 12 feet above levee crown.

LM Start	5.44	Rating **	M	Issue No.	88
LM End	5.47	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.324120 °	38.324602 °
				-121.585884 °	-121.585586 °
DWR ID	DWR_RD0349_03_s_2018_88				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.53	Rating **	M	Issue No.	61
LM End	5.55	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.325304 °	38.325613 °
				-121.585180 °	-121.585026 °
DWR ID	DWR_RD0349_03_f_2017_61				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.57	Rating **	M	Issue No.	117
LM End	5.57	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.325845 °	38.325845 °
				-121.584890 °	-121.584890 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44392					
DS_ID:24191					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Electromagnetic survey indicated a crossing at this point. Appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 3-inch pipe of unknown material or purpose through the levee, 3.0 feet below the levee crown.					
[Additional Reference(s): DWR Levee Log, 2005]					
FS Date: 3/19/2009					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.58	Rating **	M	Issue No.	118
LM End	5.58	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.326096 °	38.326096 °
				-121.584747 °	-121.584747 °
DWR ID					

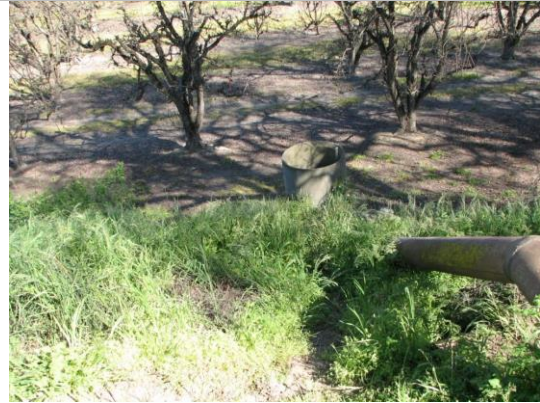
Comment Code

--

Inspector Comment

FS_ID:50016
DS_ID:24190
EP_NO: 16077
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Crossing has been downgraded from Urgent to Non-Urgent no signs of pipe failure were present on levee crown or slopes during site visit. Need to contact owner to determine last internal inspection completed. (DWR UCIP - omagana)3/19/2009 Soil disturbed on landward slope--need to contact owner. Also vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 10-inch irrigation pipe of unknown material through the levee, 3.8 feet below the crown. Pump in pump house on waterside (WS). Service pole on WS slope. Concrete standpipe and distribution box located on the WS toe. Pipe is exposed on both slopes. Section of pipe under crown, between shoulders, removed and replaced with 10-inch steel pipe in November 20, 1991, no permit application was filed. In August 13, 1993, Mr. Steve Makis of Flood Management, revealed that the pipe was not soil proofed, and siphon breaker was not installed, and backfill was less than 90 % and less than 2-foot of cover through the levee crown. Pipe was required to be completely removed and replaced in September 15, 1993. (10-inch authorized under Permit No. 16077, 1993 - John McCormack Company, 10-inch pipe replaces the USACE O&M 10-inch pipe referenced as HLM 5.9) [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual Unit No. 110, May 1959, HLM 5.9, Drawing not available].
FS Date: 8/17/2016

Photo 1 of 3 : UCIP_SP_2018_50016_36841.jpg



View of LS--pipe and stand pipe visible.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.58	Rating **	M	Issue No.	118 (cont)	
LM End	5.58	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.326096 °	38.326096 °	
				-121.584747 °	-121.584747 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50016 DS_ID:24190 EP_NO: 16077 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Crossing has been downgraded from Urgent to Non-Urgent no signs of pipe failure were present on levee crown or slopes during site visit. Need to contact owner to determine last internal inspection completed. (DWR UCIP - omagana)3/19/2009 Soil disturbed on landward slope--need to contact owner. Also vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 10-inch irrigation pipe of unknown material through the levee, 3.8 feet below the crown. Pump in pump house on waterside (WS). Service pole on WS slope. Concrete standpipe and distribution box located on the WS toe. Pipe is exposed on both slopes. Section of pipe under crown, between shoulders, removed and replaced with 10-inch steel pipe in November 20, 1991, no permit application was filed. In August 13, 1993, Mr. Steve Makis of Flood Management, revealed that the pipe was not soil proofed, and siphon breaker was not installed, and backfill was less than 90 % and less than 2-foot of cover through the levee crown. Pipe was required to be completely removed and replaced in September 15, 1993. (10-inch authorized under Permit No. 16077, 1993 - John McCormack Company, 10-inch pipe replaces the USACE O&M 10-inch pipe referenced as HLM 5.9) [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual Unit No. 110, May 1959, HLM 5.9, Drawing not available]. FS Date: 8/17/2016						

Photo 2 of 3 : UCIP_SP_2018_50016_36843.jpg



View of pipe and pump along WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.58	Rating **	M	Issue No.	118 (cont)
LM End	5.58	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.326096 °	38.326096 °
				-121.584747 °	-121.584747 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50016
DS_ID:24190
EP_NO: 16077
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Crossing has been downgraded from Urgent to Non-Urgent no signs of pipe failure were present on levee crown or slopes during site visit. Need to contact owner to determine last internal inspection completed. (DWR UCIP - omagana)3/19/2009 Soil disturbed on landward slope--need to contact owner. Also vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Note date on photos should be 3/18/09 not 7/26/08 camera metadata is incorrect. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 10-inch irrigation pipe of unknown material through the levee, 3.8 feet below the crown. Pump in pump house on waterside (WS). Service pole on WS slope. Concrete standpipe and distribution box located on the WS toe. Pipe is exposed on both slopes. Section of pipe under crown, between shoulders, removed and replaced with 10-inch steel pipe in November 20, 1991, no permit application was filed. In August 13, 1993, Mr. Steve Makis of Flood Management, revealed that the pipe was not soil proofed, and siphon breaker was not installed, and backfill was less than 90 % and less than 2-foot of cover through the levee crown. Pipe was required to be completely removed and replaced in September 15, 1993. (10-inch authorized under Permit No. 16077, 1993 - John McCormack Company, 10-inch pipe replaces the USACE O&M 10-inch pipe referenced as HLM 5.9) [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual Unit No. 110, May 1959, HLM 5.9, Drawing not available].
FS Date: 8/17/2016

Photo 3 of 3 : UCIP_SP_2018_50016_36842.jpg



View of WS.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.60	Rating **	M	Issue No.	89
LM End	5.60	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.326261 °	38.326261 °
				-121.584721 °	-121.584721 °
DWR ID	DWR_RD0349_03_s_2018_89				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.62	Rating **	M	Issue No.	90
LM End	5.62	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.326654 °	38.326654 °
				-121.584681 °	-121.584681 °
DWR ID	DWR_RD0349_03_s_2018_90				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.65	Rating **	M	Issue No.	91
LM End	5.65	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.326981 °	38.326981 °
				-121.584711 °	-121.584711 °
DWR ID	DWR_RD0349_03_s_2018_91				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/06/2018 04/06/2018	Keith Millard

LM Start	5.69	Rating **	M	Issue No.	62
LM End	5.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.327531 °	38.327531 °
				-121.584874 °	-121.584874 °
DWR ID	DWR_RD0349_03_f_2017_62				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	6.15	Rating **	M	Issue No.	63
LM End	6.15	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.330856 °	38.330856 °
				-121.581075 °	-121.581075 °
DWR ID	DWR_RD0349_03_s_2018_63				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	6.33	Rating **	U	Issue No.	36
LM End	6.35	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.328844 °	38.328626 °
				-121.579075 °	-121.578783 °
DWR ID	DWR_RD0349_03_f_2017_36				
Comment Code					
FW : Firewood					
Inspector Comment					
130-foot-long, 6-foot-high stack of firewood on waterside of crown will inhibit ability to flood fight. Should be removed.					

Photo 1 of 1 : SP_2018_RD0349_206_36_20180305_00007.jpg



Firewood on crown/waterside shoulder at LM 6.35.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--